EGF
INDUSTRIAL PACKAGING
+90 216 509 11 26

EGF ENDÜSTRİYEL AMBALAJ BELGELER

Web : egf.com.tr

SERTİFİKA

NAVIGA CERTIFICATION

ISO 9001:2008 Kalite Yönetim Sistemi

EGF ENDÜSTRİYEL AMBALAJ SAN. TiC.LTD.ŞTi.

Yunusemre Mah.Tabiat Sok. No:19 Zemin Kat Sancaktepe Çekmekö, **İSTANBUL**

Yukarıda belirtilen kuruluşun, NAVIGA Belgelendirme Prosedürüne göre Standardın şartlarını aşağıdaki kapsamda karşıladığı kanıtlanmıştır.

Kapsam

ENDÜSTRIYEL HAVA YASTIGI IMALATI

Rapor No:	1640485	Sertifika Bitiş Tarihi:	14.09.2024
Sertifika Kayit No:	1640672	Ilk Belgelendirme Tarihi:	31.08.2016

Belgelendirme NAVIGA Tetkik ve Belgelendirme Prosedürlerine uygun olarak uygulanmış olup gözetim denetimine(26.11.2023) kadar geçerlidir.

Belgelendirme Kuruluşu

NAVIGA ULUSLARARASI BELGELENDIRME VE EĞITIM HIZ. LTD. ŞTI.

İstanbul, 31.08.2016

TÜRKAK

AB 0050 S

İşbu sertifika, Naviga'nın belgelendirme prosedür ve talimatlarına, yukarıdaki standardın gerekliliklerine uyulduğu sürece, yukarıdaki adres ve kapsam dahilinde geçerlidir.

NAVIGA ULUSLARARASI BELGELENDIRME VE EGITIM HIZMETLERI LTD. Ş TI .
Metropol Center Kat 11 Ofis 46 Merter 34010 / ISTANBUL
Tel : 0212 482 96 56 Fax: 0212 482 94 24 www.navigaltd.com - info @navigaltd.com

FR.069/REV.02 13.12.2010

SERTİFİKA

NAVIGA CERTIFICATION

ISO 14001 :2004 Çevre Yönetim Sistemi

EGF ENDÜSTRİYEL AMBALAJ SAN. TİC. LTD.ŞTİ. .

Yunusemre Mah. Tabiat Sok. No:19 Zemin Kat Sancaktepe Çekmeköy, İSTANBUL

Yukarıda belirtilen kuruluşun, NAVİGA Belgelendirme Prosedürüne göre Standardın şartlarını aşağıdaki kapsamda karşıladığı kanıtlanmıştır.

Kapsam

ENDÜSTRİYEL HAVA YASTIĞI İMALATI

Rapor No:	1640485	Sertifika Bitiş Tarihi:	14.09.2024
Sertifika Kayıt No:	1643673	ilk Belgelendirme Tarihi:	31.08.2016

Belgelendirme NAVİGA Tetkik ve Belgelendirme Prosedürlerine uygun olarak uygulanmış olup gözetim denetimine(26.11.2023) kadar geçerlidir.

Belgelendirme Kuruluşu

NAVİGA ULUSLARARASI BELGELENDİRME VE EĞİTİM HIZ. LTD. ŞTİ.

İstanbul, 31.08.2016

TÜRKAK

İşbu sertifika, Naviga'nın belgelendirme prosedür ve talimatlarına, yukarıdaki standardın gerekliliklerine uyulduğu sürece, yukarıdaki adres ve kapsam dahilinde geçerlidir.

NAVİGA ULUSLARARASI BELGELENDİRME VE EĞİTİM HİZMETLERİ LTD. ŞTİ. Ali Rıza Gürcan cad. Metropol Center Kat: 1 1 No 46 Merter 3401 5 / İSTANBUL FR.069 REV02 13.12.2010
Tel: 0212 482 96 56 Fax: 0212 482 94 24 www.navigaltd.com - info@navigaltd.com

SERTİFİKA

NAVIGA CERTIFICATION

OHSAS 18001 :2007 İş Sağlığı ve Güvenliği Yönetim Sistemi

EGF ENDÜSTRİYEL AMBALAJ SAN. TİC. LTD.ŞTİ.

Yunusemre Mah. Tabiat Sok. No:19 Zemin Kat Sancaktepe Çekmeköy, İSTANBUL

Yukarıda belirtilen kuruluşun, NAVİGA Belgelendirme Prosedürüne göre Standardın şartlarını aşağıdaki kapsamda karşıladığı kanıtlanmıştır.

Kapsam

ENDÜSTRİYEL HAVA YASTIĞI İMALATI

Rapor No:	1640485	Sertifika Bitiş Tarihi:	30.08.2024
Sertifika Kayıt No:	1644674	ilk Belgelendirme Tarihi:	31.08.2016

Belgelendirme NAVİGA Tetkik ve Belgelendirme Prosedürlerine uygun olarak uygulanmış olup gözetim denetimine(26.11.2023) kadar geçerlidir.

Belgelendirme Kuruluşu

NAVİGA ULUSLARARASI BELGELENDİRME VE EĞİTİM HIZ. LTD.ŞTİ.

İstanbul, 31.08.2016

İşbu sertifika, Naviga'nın belgelendirme prosedür ve talimatlarına, yukarıdaki standardın gerekliliklerine uyulduğu sürece, yukarıdaki adres ve kapsam dahilinde geçerlidir.

NAVİGA ULUSLARARASI BELGELENDİRME VE EĞİTİM HİZMETLERİ LTD. ŞTİ.
Metropol Center Kat 11 Ofis 46 Merter 34010 / İSTANBUL
Tel: 0212 48296 56 Fax: 0212 482 94 24 www.navigaltd.com info@navigaltd.com FR.069 REV.02 13.12.2010

RİTAŞ

KİMYA VE TEKSTİL SAN.TİC.A.Ş.

TURKEY'S SECOND 500 INDUSTRIAL ENTERPRISES Gaziantep

Merveşehir Mh.Şehit Ömer Halis Demir Bul. No 113 Şehitkamil 27500 Gaziantep / TÜRKİYE
Tel.: +90 342 3295000 - Fax: +90 342 3290971 - www.ritas.com.tr - ritas@ritas.com.tr

07.04.2023

Sayın Cem Bey;

Kullanmış olduğumuz PP ve PE Hammaddeleri % 100 geri dönüşüme uygundur.

RİTAŞ
KİMYA VE TEKSTİL SAN. TİC. A.Ş.
Merve Şehir Mah. Şehit Ömer Halisdemir Bulv.
No:113 Şehitkamil/GAZİANTEP
Tel.: 0.342 329 58 00 Fax : 0.342 329 09 70-71
Gazikent V.D. 735 066 7764 - Tic.Sic. No:33778

vetaş
PLASTİK VE AMBALAJ SANAYİ A.Ş.

02.09.2022

UYGUNLUK BEYANI

Vetaş Plastik ve Ambalaj San. A.Ş. olarak, üretmekte olduğumuz LDPE, MDPE ve HDPE Ambalajlarının, Türk Gıda Kodeksi Etiketleme yönetmeliğinde belirtilen Alerjen Maddeleri içermediğini beyan ederiz.

Saygılarımızla.

MDPE PACKAGING
TECHNICAL DATA SHEET

Product Name (Description)	MDPE PACKAGING Transparent Width (60 cm-146 cm) Thickness (75 µm)
Compound	% 100 Virgin MDPE (Borealis grade)
Biological Specs	**E.Koli** Mustn't be exist (kob/g) Analyse Method: ISO 18593 **S.Aureus** ..... < 25 pcs kob/g Analyse Method: ISO 18593 / BAM
Raw Material Specification	**Melting Point (DSC)*** (ASTM E-794): 110 °C **Relentness Point*** (ASTM D-1525): 92-98 °C **Elongation At Break*** (ASTM D-638): 600-640 % **Tensile Strength At Yield*** * (ASTM D-638): 85-95 kg/cm² **Tensile Strength At Break*** (ASTM D-638): 140-190 kg/cm² **Density, 23 °C *** (ASTM D-1505): 0.910-0.923) gr/cm3
Compatibility with Sterilization Methods*	**Autoclave:** Poor **Dry Heat:** Poor **Ethylene Oxyde (EtO):** Good **Gamma Irradiation:** Good **Electron Beam:** Good
Chemical Properties	**Overall Migration (Referans Method TS EN 1186/1-15)** **Fatty Food,** Food Simulant D1 and D2, **Aqueous Food,** Food Simulant A, **Asidic Food,** Food Simulant B. **Requirement: 10 mg/dm²** **IR Spectrum:** (Method FT-IR) **Analysis Result:** Polyethylene (PE)
Shelf Life	2 years
Storage Conditions	It should be stored in a place moisture-free, odor and no sunlight, dry and stored in a cool place.
Packaging	In PE bags or corrugated boxes.
Distribution and Transport Conditions	1. It is carried by clean and odorless trucks. 2. Keep away from direct sunshine. 3. Store it in a dry place. 4. Do not stow. 5. Warehouse's heat should be min: 4 °C / max: 40 °C.
Warnings On Stickers	Store in a dry place
Usage	It's for food, pharmaceutical, textile, automotive and cosmetic sectors. Usage heats are between -4 °C +60 °C
Allergens	No
Consumer Groups	General

*External Source Measurements

Prepered By:
Dipl. Chem Eng. Nigar SEN,PhD
FR.KK.05 Rev:00

Cerkezkoy Organize Sanayi Bolgesi G.O.Pasa Mah. 3. Cad. No.3 Cerkezkoy 59500 Tekirdag/TURKEY
Tel: +90 212 656 16 82 Fax: +90 212 656 16 93

STATEMENT ON ORIGIN OF RAW MATERIALS

25.11.2022 Ed. 4

Polyethylene
Borstar® FB2230

Animal based materials and BSE/TSE
We certify that manufacturing this product, we do not use or intentionally add into it any additives of animal origin. We therefore state that our product is to be considered safe with respect to BSE and TSE transmissions.

Genetically modified organisms (GMO)
We certify that manufacturing this product, we do not use or intentionally add into it any additives derived from genetically modified organisms.

Halal certification
This product does not have an official Halal certification.
We certify that manufacturing this product, we do not use or intentionally add into it any additives of animal origin or drinkable alcohol (ethanol).

Kosher certification
This product does not have an official Kosher certification.
We certify that manufacturing this product, we do not use or intentionally add into it any additives of animal origin, dairy products, marine products or their derivatives.

Palm oil, palm kernel oil and their derivatives
We state that manufacturing this product, we incorporate small amounts additives derived from fatty acids that can be of palm oil or palm kernel oil origin.
All such additives in this product are RSPO certified.

Prepared by Borealis, Group Product Stewardship / Aino Haritonova

Disclaimer

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however we do not assume any liability whatsoever for the accuracy and completeness of such information.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

No liability can be accepted in respect of the use of Borealis' products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.

Borealis AG | Trabrennstrasse 6-8 | 1020 Vienna | Austria
Telephone +43 1 224 00 0 | Fax +43 1 22 400 333
FN 269858a | CCC Commercial Court of Vienna | Website www.borealisgroup.com

BOREALIS

Polyethylene
Borstar® FB2230

We confirm that this product fulfils the applicable requirements on substances used for the manufacturing of materials and articles or components of articles intended to come into contact with food as described in the below cited legislation and standards.

EU

The below listed regulations represent harmonised EU legislation and are directly applicable in all EU-member states. National legislation implementing such regulations is therefore not separately cited in this document.

We would like to stress that this product is a **Plastic Intermediate Material** as defined in chapter 4.3.1. of *Union Guidance on Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food as regards information in the supply chain, from 28.11.2013*. Therefore this confirmation is restricted to the requirements as applicable for **Plastic Intermediate Materials** used for the manufacturing of materials and articles or components of articles intended to come into contact with food.

- Commission Regulation (EC) No 1935/2004. The organoleptic characteristics of food contact materials are influenced by converting conditions, time and temperature of storage and type of food, therefore compliance with article 3 §1,c must be verified and tested by the producer of the final packaging material.
- Commission Regulation (EU) No. 10/2011 as amended. All used monomers and additives are listed in Annex I of this regulation. For any relevant restriction as set by the Annexes I and/or II see chapter "migration testing".
- Commission Regulation (EC) No. 2023/2006. This material has been manufactured in accordance with the relevant requirements of good manufacturing practice for materials articles intended to come into contact with food, as described in more detail in the "Quality information document" on Borealis' homepage.
- Commission Regulation (EC) No. 1895/2005 - BADGE, NOGE and BFDGE are not used for the production of this grade.
- Commission regulation (EC) No. 450/2009 on active and intelligent materials and articles is not applicable to Borealis' polymer resins.

Additional national legislation in EU-member states (as amended to date)

Polymerisation production aids, aids to polymerisation, colorants and solvents, if not already listed in Annex I of Regulation (EU) No. 10/2011 can be used based on their national approval and are subject to mutual recognition. The process chemicals used for the manufacturing of this grade are permitted by at least one of the following national regulations/recommendations, or are to be deemed safe based on a risk assessment conducted in accordance with article 19 of Regulation (EU) No. 10/2011.

France	Décret No. 2007-766 du 10 mai 2007 portant application du code de la consommation en ce qui concerne les matériaux et les objets destinés à entrer en contact avec les denrées alimentaires, as amended and the French DGCCRF guidelines on food contact plastics.
Germany	BfR-Empfehlung III Polyethylen, Stand 01.04.2021
The Netherlands	Verpakkingen- en Gebruiksartikelenbesluit, 2014 (Warenwet), Deel A, Hoofdstuk 1, Kunststoffen, as amended (last update from 01.07.2022

Borealis AG | Trabrennstrasse 6-8 | 1020 Vienna | Austria
Telephone +43 1 224 00 0 | Fax +43 1 22 400 333
FN 269858a | CCC Commercial Court of Vienna | Website www.borealisgroup.com

Europe (Non-EU-countries)

Norway	Sosial- og helsedepartementets forskrift 1993-12-21-1381 - as amended (referring to Regulation EU No. 10/2011)
Switzerland	Verordnung der EDI über Bedarfsgegenstände vom 16.12.2016 (817.023.21) ; Stand 15.10.2022, 5. Abschnitt: Bedarfsgegenstände aus Kunststoff
Türkiye	Notification No. 2019/44 from 25.12.2019 - referring to Regulation EU No. 10/2011
United Kingdom	The Materials and Articles in Contact with Food SI 2019 No. 704 - (England) (Amendment) (EU Exit) Regulations 2019 SI 2018 No. 186 - (Nothern Ireland) (Amendment) Regulations 2018 SI 2019 No. 32 - (Scotland) (Amendment) Regulations 2019 SI 2018 No. 913 - (Wales) (Amendment) Regulations 2018 (referring to EU legislation)

World

Brazil	ANVISA RDC nº 56 /2012 as amended - lista positiva de monômeros (Brazilian implementation of Mercosur RES 02/12 and amendments) ANVISA RDC nº 326/2019 - Lista Positiva de Aditivos (Brazilian implementation of Mercosur RES 39/19)
China	GB9685-2016 - National standard on the use of additives in food containers and packaging materials, Appendix A - Table A1 GB 4806.1-2016 - National standard on general safety requirements for materials and articles in food contact - so far applicable to polymer resins. GB 31603-2015 General Hygienic Standard for Production of Food Contact Materials and Articles - This material has been manufactured in accordance with the relevant requirements of good manufacturing practice for materials articles intended to come into contact with food, as described in more detail in the "Quality information document" on Borealis homepage. GB 4806.6-2016 - National standard on plastic resins for food contact use - Appendix A - 101 Ethylene-copolymer - no co-monomers with SML used
Japan	Notification No. 196 of 2020 as published on April 28, 2020 by MHLW (Japan Ministry of Health, Labour and Welfare) - and subsequent amendments Appendix 1, Table 1 - Polymer group 2b - polymer composed of alkenes as the main monomer; all food types; max. temp.: III (> 100°C) Appendix 1, Table 2 Additives All used additives are listed and below the permitted concentration limits
Mercosur	MERCOSUR/GMC/RES. Nº 02/12 as amended - Lista positiva de monomeros MERCOSUR/GMC/RES. Nº 39/19 - Lista positiva de aditivos
USA	FDA, CFR, Title 21, 177.1520 (a)(3)(i)(c)(1), (b) and (c)3.2a Olefin polymers

Limits of use (FDA)	Test samples made from this product fulfilled the extraction requirements according to FDA CFR 21 §177.1520(c), as defined for the type of polymer described above. Therefore this product may be used in contact with all food types as described in table 1 of CFR 21 §176.170(c), under conditions of use A through H as described in table 2 of CFR 21 §176.170(c) (including articles used for packing or holding food during cooking). **It is the responsibility of the converter or food packer to control that the final packaging complies with the requirements of the intended and foreseeable conditions of use.**

Borealis AG | Trabrennstrasse 6-8 | 1020 Vienna | Austria
Telephone +43 1 224 00 0 | Fax +43 1 22 400 333
FN 269858a | CCC Commercial Court of Vienna | Website www.borealisgroup.com

Migration testing

Migration limits

The product contains traces of Aluminium, which is regulated with a specific migration limit in EU (Commission Regulation 10/2011; Article 6.3.a and Annex II), Mercosur (Res. 39/2019 Annexo 4.3.b and Res. 02/2012 chapter 4b) and Switzerland (Bedarfsgegenständeverordnung 817.023.21, Anhang 2.3.1); (1 mg/kg expressed as Al). Representative worst case tests (3% acetic acid; 4h/100°C; S/V-ratio 6) did not show any migration above 0,04 mg/kg (limit of detection).

Other used monomers and additives are not regulated with specific migration limits.

Substances also authorised as direct food additives ("Dual use additives") are either not used for the manufacturing of this product, kind of not migrating, or only present in quantities that in case of their migration don't allow relevant contribution to exceed of the limits as set in the applicable food legislation.

Migration testing

In accordance with article 12 of Commission Regulation (EU) 10/2011, article 12 of Swiss ordinance 817.023.21, article 2.12 of Chinese standard GB4806.1 and Mercosur GMC Res No. 56/92 as amended by Res 20/2021, the overall migration shall not exceed 10 mg/dm³ from plastic materials and articles, with the exception for plastic materials and articles intended to contact infant or child food (60mg/kg).

A representative sample from this or a comparable material, tested for 2d at 20°C in isooctane (1 mm plate / total immersion) did not exceed the limit of 10 mg/dm² for overall migration. This test result is only valid for orientation purposes but must not be used to confirm legal compliance of the finished article.

Compliance with the overall and specific migration limits as described above must be measured from the final packaging intended to come into contact with foodstuff by using real food or appropriate food simulants at the intended and foreseeable conditions of use as specified in Annex III of Commission Regulation (EU) 10/2011; Annex 4 of Swiss Ordinance 817.023.21; Chinese standard GB31604.8-2021; Mercosur GMC Res No. 32/2010. It is the responsibility of the converter or food packer to verify that the final packaging complies with the overall and specific migration limits as set out by the applicable legislation.

Borealis AG | Trabrennstrasse 6-8 | 1020 Vienna | Austria
Telephone +43 1 224 00 0 | Fax +43 1 22 400 333
FN 269858a | CCC Commercial Court of Vienna | Website www.borealisgroup.com

Non-intentionally added substances - NIAS

Commission Regulation (EU) 10/2011 notes that not all contaminants and reaction products of authorised monomers and additives can be listed in its Annex I. The identification of non-listed migrants may therefore not be an exclusion criterion in itself. However, a toxicological evaluation of these migrants needs to be performed.

The major fractions of NIAS in Polyolefins are the oligomers, which are unavoidably formed during polymerisation and cannot be removed. A recent joint study of polyolefin producers demonstrated that oligomers migrating from all types of polyolefins only consist of linear and branched alkanes (POSH) and alkenes (POMH), no cyclic or aromatic compounds were found. The toxicological assessment of such migrants concluded that they are sufficiently characterised by the existing overall migration limit.

Further a variety of representative Borealis products, covering the whole Borealis product spectrum, was assessed in relation to migrating NIAS by renowned test institutes. Beside oligomers the typical NIAS are reaction- and decomposition products from antioxidants, many of them known as "Arvin-substances". Another joint industry study confirmed that none of these Arvin-substances are genotoxic and can therefore be rated at least as "Cramer-class III", allowing a daily consumption of 90 µg/person/day.

However, we wish to stress that a NIAS-assessment is subject to the finished food contact article and the formation of NIAS is influenced by thermal and mechanical treatment during conversion, mixture with other substances and the applied test conditions. A raw material screening therefore can never monitor all potential criteria.

Annex IV of Commission Regulation (EU) 10/2011 (Declaration of compliance), as revised by Commission Regulation (EU) 2020/1245, requires to inform the downstream user about substances in the intermediate material, *for which genotoxicity has not been ruled out, and which originate from an intentional use during a manufacturing stage of that intermediate material and which could be present in an amount that foreseeably gives rise to a migration from the final material exceeding 0,00015 mg/kg food or food simulant.* **To our present day knowledge, this product does not contain any intentionally added or known non-intentionally added substances for which genotoxicity has not been ruled out.**

Prepared by Borealis, Group Product Stewardship / Jürgen Emig

Disclaimer

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication.

The legislation cited above applies to the final packaging which is intended to come or is brought into contact with foodstuff. This statement however is restricted to the Borealis product as it leaves production. It is the customers responsibility to verify compliance with applicable legislation of the final packaging under actual and foreseeable conditions of use.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

No liability can be accepted in respect of the use of Borealis' products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.

Borealis AG | Trabrennstrasse 6-8 | 1020 Vienna | Austria
Telephone +43 1 224 00 0 | Fax +43 1 22 400 333
FN 269858a | CCC Commercial Court of Vienna | Website www.borealisgroup.com

We confirm that during manufacturing of this product we do not use or intentionally add any of the chemicals restricted by the following regulations and standards and their subsequent amendments in amounts which exceed the applicable limits.

- **Annex XVII** of the REACH Regulation **1907/2006/EC** - Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles
- **Annex XIV** of the REACH Regulation **1907/2006/EC** - List of substances subject to authorisation
- **US TPCH** Model Toxics in Packaging Legislation, February 2021
- Directive **94/62/EC** (Packaging and packaging waste - PPW) and related **EN13428** and **CR13695** - Sum of Cd, Cr(VI), Hg and Pb < 100 ppm
- Directive **2000/53/EC** (End of life vehicles - ELV) - Cr(VI), Hg and Pb < 0.1 wt%, Cd < 0.01 wt%
- Directive **2011/65/EU** (Restriction of the use of certain Hazardous Substances in electrical and electronic equipment - RoHS) and all other RoHS legislations worldwide that restrict some or all of the following substances - Pb, Hg, Cr(VI), PBB, PBDE, DEHP, BBP, DBP, DIBP < 0.1 wt%, Cd < 0.01 wt%
- Directive **2012/19/EU** (Waste Electrical & Electronic Equipment - WEEE) - Annex VII - No ingredients used which require selective waste treatment
- **Proposition 65** list of chemicals known to the State of California to cause cancer or reproductive toxicity - no warning labels are required for this product
- Regulation **1005/2009/EC** (Substances that deplete the ozone layer)
- **US Clean Air Act**, Title VI, Classes I and II (EPA Final Rule; Federal Register 8136, 11.2.1993) on substances that deplete the ozone layer
- Regulation (EU) **2019/1021** on persistent organic pollutants (POPs)
- Food allergens as listed in
  - Annex II of Regulation (EU) 1169/2011
  - US FALCPA of 2004 and FASTER Act of 2021
  - Brazilian Resolution RDC no. 727 of July 2022
- Global Automotive Declarable Substance List (**GADSL**)
  - No use of prohibited or declarable substances above threshold limits
- Swiss **SR 814.018** (Verordnung über die Lenkungsabgabe auf flüchtigen organischen Verbindungen - VOCV) - VOC's according to Annexes 1 & 2 < 3 wt%
- Regulation **1223/2009/EC** (cosmetic products) - prohibited and restricted substances
- Directive **2009/48/EC** (safety of toys)
- European Standard **EN 71-3:2019+A1:2021** "Safety of Toys", Part 3: "Migration of certain elements" - Migration below limits for toy material category III in Table 2.
- Japanese CSCL; Class I or II Specified Chemical Substances

Polyethylene
Borstar FB2230

Regarding classification of the above product according to REGULATION (EC) No 1272/2008 and its subsequent amendments, reference is made in the SDS/PSIS for the above product.

We also confirm that during the manufacturing of the above product we do not use or intentionally incorporate into it any of the following materials:

- Acrylamide
- Aromatic Amines (restricted in Regulation 1907/2006/EC, Annex XVII)
- Artificial Musks
- Asbestos
- Azocolorants (restricted in Regulation 1907/2006/EC, Annex XVII)
- Azodicarbonamide, semicarbazide
- Benzophenones (e.g. 4-MBP, 4-HBP, 2,2´-Dimethoxy-2-phenylacetophenone)
- BHA or BHT
- Biocides (Pesti-, Herbi-, Insecti-, Fungi-, Bactericides)
- Bisphenols and their compounds (e.g. NOGE, BFDGE, BADGE)
- CFC, HCFC
- CMR substances Categories 1A, 1B according to Regulation 1272/2008/EC
- Colophony (rosin)
- 4,4'- Diaminodiphenylmethane (MDA)
- Di-2-ethyl-hexyl maleate (DEHM)
- Dimethylfumarate (DMF), Dibutylfumarate
- 1,4-Dioxane
- Elements: Antimony, Arsenic, Beryllium, Bismuth, Cobalt, Gold, Indium, Lanthanites, Nickel, Palladium, Selenium, Silver, Tellurium, Thorium, Tin, Tantalum, Tungsten
- Heavy metals: Cadmium, Chromium (VI), Lead, Mercury
- Endocrine disruptors: Category 1 substances in the European Commission EDS database or substances identified as ED at EU level
- 2-Ethylhexanoic acid, Ethoxyquin, ITX, Thiurams
- Flame retardants (halogenated or phosphorus based)
- Formaldehyde
- Fragrances
- Furfural
- Glycol ethers (e.g. EGME, EGMEA, EGEE, EGEEA)
- Glyoxal
- Halogenated organic compounds
- Hydroquinone
- Isocyanates, polyurethanes
- Mechanically recycled materials
- Melamine, Cyanuric acid
- Mica
- MOAH (mineral oil aromatic hydrocarbons)
- Nanomaterials (>50% of particles <100 nm)
- Natural rubbers, Latex
- Nitrosamines, Nitrates, Nitrites*
- Octyl- and Nonylphenols and Octyl- or Nonylphenolethoxylates; TNPP
- Organotin compounds
- Oxo-degradable additives
- Parabens
- PBT and vPvB substances according to EC Regulation No.1907/2006 (REACH)
- PBT substances under TSCA section 6(h)
- PFAS (acc. OECD definition)
- PFOA, PFOS
- Phthalates
- Plasticisers (e.g. Adipates, ESBO, NETSA, Phthalates)
- Polychlorinated Bi-, Terphenyls and Naphthalenes
- Polychlorinated dibenzodioxins and dibenzofurans
- Polycyclic aromatic hydrocarbons (PAH) as restricted in Regulation 1907/2006/EC, Annex XVII
- Quaternary ammonium compounds *
- Radioactive substances
- Resorcinol
- Silicones (polysiloxanes)
- Styrene, Polystyrene
- SVHC on "Candidate List of Substances of Very High Concern for Authorisation"
- Thiuram mix
- Tri-tert-butylphenol
- UV-hardeners (e.g. ITX, Titanyl-acetylacetone)
- Vinylchloride, Vinylidenechloride, PVC, CPVC or PVDC

*) Quaternary ammonium compounds and nitrites may be found in used process chemicals resulting in traces of these substances in the product at concentrations below 1 ppm.

Borealis AG | Trabrennstrasse 6-8 | 1020 Vienna | Austria
Telephone +43 1 224 00 0 | Fax +43 1 22 400 333
FN 269858a | CCC Commercial Court of Vienna | Website www.borealisgroup.com

BOREALIS

20.10.2023 Ed. 34

Polyethylene
Borstar FB2230

The ingredients of the above product, and if applicable the basic polymer(s), are either listed or exempted in the following chemical inventories:

Australia/AIICS
Canada/DSL
China/IECSC
Europe/EINECS or ELINCS or NLP
Japan/ENCS and ISHL
Korea/KECL
New Zealand/NZIoC
Philippines/PICCS
Taiwan/TCSI
USA/TSCA (all relevant ingredients designated as active)

Prepared by Borealis, Group Product Stewardship

Disclaimer

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however we do not assume any liability whatsoever for the accuracy and completeness of such information.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

No liability can be accepted in respect of the use of Borealis' products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.

Borealis AG | Trabrennstrasse 6-8 | 1020 Vienna | Austria
Telephone +43 1 224 00 0 | Fax +43 1 22 400 333
FN 269858a | CCC Commercial Court of Vienna | Website www.borealisgroup.com

BOREALIS

VETAŞ
PLASTİK VE AMBALAJ SANAYİ A.Ş.

UYGUNLUK DEKLARASYONU
DECLARATION OF CONFORMITY

Üretici Manufacturer	VETAŞ PLASTİK VE AMBALAJ SANAYİ A.Ş.
Adres Address	ÇERKEZKÖY OSB G. O. PAŞA MAH. 3. CAD. NO:3 ÇERKEZKÖY/TEKİRDAĞ TÜRKİYE
Ürünler Products	LDPE, MDPE, HDPE, PP, OPP, CPP materyallerden: Baskılı Baskısız, Şeffaf - Renkli, Tek Katlı ve Çok katlı Plastik Film/Ambalaj Malzemeleri Production of Flexible Packaging made of LDPE, LLDPE, MDPE, HDPE, PP, OPP and CPP – Printed and Unprinted, Transparent and Colored, Mono and Multi Layered Plstik Film/Packaging
EU Directive	Commission Regulation (EU) 2020/1245 amending Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food. Directive 94/62/EC on Packaging and packaging waste (amended Directive 2004/12/EC)
AT Direktifi	Commission Framework Regulation (EU) No. 1935/2004/EC; Commission Regulation EC No. 2023/2006 on Good Manufacturing Practice for Materials and Articles intended to come into contact with Food.
Yerel Mevzuat Local Legislation	Türk Gıda Kodeksi Yönetmeliği Türk Gıda Kodeksi Gıda ile Temas Eden Plastik Madde ve Malzemeler Tebliği (2019/44); Turkish Food Codex Contact Matter and Material Communique (2019/44)
Beyan Declaration	Tarafımızdan yayınlanan ve yukarıdaki listelenen tüm ürünlerimizin uygulanabilir standartlarına uygun olduğunu ve AT direktifi ve yerel mevzuat şartlarını karşıladığını beyan ederiz. We declare that all our products mentioned above and listed on the EC Certificate published by us, conforms the applicable standards and meet the requirements of EU Directive and local legislation.
Kapsam dışı Exclusions	Bu uygunluk deklarasyonu ürünlerin pazara arz edildiği tüm ülkelerde, o ülkenin dilinde hazırlanmış kullanım kılavuz ve Etiketleriyle ve yetkili distribütörünün sorumluluğuyla geçerlidir. This declaration of conformity is valid with labels and IFUs prepared in the local language where the products have been marketed under the responsibility of the authorised distributor.

Date: 24.11.2022

Dipl. Chem.Eng. Nigar SEN, PhD

ÇOSB G.O.Paşa Mah. 3. Cad. No:3 Çerkezköy -TEKİRDAG Tel : +90 444 34 59 Faks : +90 212 656 16 93
www.vetasplastik.com

T.C. TARIM VE ORMAN BAKANLIĞI
T.C. MINISTRY of AGRICULTURE and FORESTRY

INTERTEK TEST HİZMETLERİ A.Ş.
İSTANBUL ÖZEL GIDA KONTROL LABORATUVARI
INTERTEK İSTANBUL PRIVATE FOOD CONTROL LABORATORY

MUAYENE VE ANALİZ RAPORU
EXAMINATION & ANALYSIS REPORT

intertek
Total Quality. Assured.

TÜRKAK
Test
TS EN ISO/IEC 17025
AB-0532-T
AB-0532-T
FS10165672
03-22

Rapor No/ ***Report No***: FS10165672	Yayımlandığı Tarih/ ***Date***: 09/03/2022

Analizin Amacı/ ***Purpose of Analysis***: Özel İstek / ***Private Demand***

Müşteri Bilgileri / *Customer Information*

Müşteri Adı / ***Customer Name***	Vetaş Plastik ve Ambalaj San.A.Ş.
Adres / ***Address***	Çerkezköy O.S.B., G.O.Paşa Mh. 3.Cd. No:3, Çerkezköy, Tekirdağ, TURKEY.

Numune Bilgileri / *Sample Information*

Adı / ***Name***	HDPE Şeffaf Torba - HDPE Transparent Bag
Üretici Adı / ***Producer Name***	Vetaş Plastik ve Ambalaj San.A.Ş.
Tanımı ve Seri - Parti No / ***Description and Batch Number***	
Üretim ve Son Kullanma Tarihi / ***Production & Expiry Date***	
Ambalajı ve Miktarı / ***Package and Quantity***	2x şeffaf poşet / transparent bag
İlgili Kişi / ***Contact Person***	Nigar Şen [nigar@wetasplastik.com]
Numune kabul tarihi / ***Sample received / transport by***	10/02/2022 kargo / parcel services
Numune alım sıcaklığı / ***Sample temp when received***	
Numuneyi teslim alan ve mühür / ***Submitted by & Seal***	Müşteri Mühürsüz / Client None/
Teklif No / ***Quotation No***	7848R1
Analiz başlama ve bitiş zamanı / ***Start / End of analysis***	10.02.2022 / 09.03.2022
Açıklamalar / ***Remarks***	

Numunenin Fotoğrafı / ***Sample Photo***

Özgür Can Feridun
Numune Kabul ve Raporlama Birim Sorumlusu / ***Supervisor of Sample Receiving and Reporting Section***

Ecem Paşahan Onur
Ambalaj Analiz Birim Sorumlusu / ***Supervisor of Food Contact Materials Analysis Section***

Melek Harmancı
Mineral Analiz Birim Sorumlusu / ***Supervisor of Mineral Analysis Section***

09/03/2022

Tasdik Olunur / ***Approved by***
Laboratuvar Müdürü / ***Laboratory Manager***
Çiğdem Kalın Vatansever

Intertek Test Hizmetleri A.S.
Merkez Mahallesi Sanayi Caddesi No:23 Altındağ Plaza
Yenibosna - İstanbul 34197
web: http://www.intertekfoodturkey.com/

Tel : 0 212 496 47 80
Faks : 0 212 652 36 02
e-mail: intertek.turkey@ha01.kep.tr, foodlab.turkey@intertek.com

T.C. TARIM VE ORMAN BAKANLIĞI
T.C. MINISTRY of AGRICULTURE and FORESTRY

INTERTEK TEST HİZMETLERİ A.Ş.
İSTANBUL ÖZEL GIDA KONTROL LABORATUVARI
INTERTEK İSTANBUL PRIVATE FOOD CONTROL LABORATORY

MUAYENE VE ANALİZ RAPORU
EXAMINATION & ANALYSIS REPORT

Rapor No/ ***Report No***: FS10165672	Yayımlandığı Tarih/ ***Date***: 09/03/2022

Analizler / ***Analyses***

No	Analiz Adı ***Analysis Name***	Sonuç ***Results***	Ölçüm Limiti ***LOQ***	Geri Kazanım ***Recovery***	Ölçüm Belirsizliği ***Uncertainty***	Metot ***Method***	Limit ***Requirement***	Değerlendirme ***Interpretation***
1	Toplam Migrasyon (Sulu Gıda, Gıda Benzeri A, %10 Etanol) Daldırma / İmmersion 40°C, 10 gün / 40°C, 10 d.* ***Determination of Overall Migration (Aqueous Food,Food Simulant A,Ethanol (10%))****	Tespit Edilemedi / Not Detected mg/dm²	2 mg/dm²	-	-	TS EN 1186-3	<= 10 mg/dm² a	Uygun : ***Pass***
2	Toplam Migrasyon (Asitli Gıda, Gıda Benzeri B, % 3 Asetik Asit) Daldırma / İmmersion 40°C, 10 gün / 40°C, 10 d.* ***Determination of Overall Migration (Acidic Food, Food Simulant B, 3% Acetic Acid)****	Tespit Edilemedi / Not Detected mg/dm²	2 mg/dm²	-	-	TS EN 1186-3	<= 10 mg/dm² a	Uygun : ***Pass***
3	Toplam Migrasyon Tayini (Yağlı Gıda, Gıda Benzeri D2, Bitkisel Yağ) Daldırma / İmmersion 40°C, 10 gün / 40°C, 10 d.* ***(Determination of Overall Migration (Fatty Food, Simulant for Simulant D2, Vegetable Oil)****	Tespit Edilemedi/ Not Detected mg/dm²	1 mg/dm²	-	-	TS EN 1186-1, TS EN 1186-2	<= 10 mg/dm² a	Uygun : ***Pass***

Özgür Can Feridun
Numune Kabul ve Raporlama Birim Sorumlusu / ***Supervisor of Sample Receiving and Reporting Section***

Ecem Paşahan Onur
Ambalaj Analiz Birim Sorumlusu / ***Supervisor of Food Contact Materials Analysis Section***

Melek Harmancı
Mineral Analiz Birim Sorumlusu / ***Supervisor of Mineral Analysis Section***

09/03/2022

Tasdik Olunur / ***Approved by***
Laboratuvar Müdürü / ***Laboratory Manager***
Çiğdem Kalın Vatansever

Bu analiz raporu adı -dan işlemlerde ve reklam amacıyla kullanılamazBu analiz raporunun hiçbir bölümü laboratuvarın yazılı izni olmadan kısmen kopyalanış, çoğaltılamaz, bir başına veya ayrı ayrı kullanılamaz. Müşteri bilgileri ve numune bilgileri müşteri tarafından sağlanmıştır. Bilginin müşteri tarafından sağlandığı durumlar hariç, raporda verilen tüm bilgilerden laboratuvarımız sorumludur. Bu rapor (üst yazı ve ekler dahil), müşteri tarafından sağlanan numuneye ait tanım, talimat,bilgi, materyal ve/veya kopyalar temelinde raporda belirtilen müşterinin talebine uygun olarak monitorler kullanımı için hazırlanmıştır. Analiz sonuçları yukarıda belirtilen numune için geçerlidir. İmzasız ve mühürsüz raporlar geçersizdir.
The whole and/or the part of this report shall not be reproduced and shall not be shared with third parties, nor to be used for juridical - official and PR activities without the written permission of INTERTEK Test Hizmetleri A.S. Customer informations and sample informations are provided by Intertek's Customer. The laboratory shall be responsible for all the information provided in the report, except when information is provided by the customer. This report (including any enclosures and attachments) are prepared for the exclusive use of the Customer(s) named in the report and on the basis of instructions, informations, conditions and/or materials supplied by Intertek's Customer. The results given herein apply to the submitted sample only. Reports are invalid without signature and seal.

Intertek Test Hizmetleri A.S.
Merkez Mahallesi Sanayi Caddesi No:23 Altındağ Plaza
Yenibosna - İstanbul 34197
web: http://www.intertekfoodturkey.com/

Tel : 0 212 496 47 80
Faks : 0 212 652 36 02
e-mail: intertek.turkey@ha01.kep.tr, foodlab.turkey@intertek.com

T.C. TARIM VE ORMAN BAKANLIĞI
T.C. MINISTRY of AGRICULTURE and FORESTRY

INTERTEK TEST HİZMETLERİ A.Ş.
İSTANBUL ÖZEL GIDA KONTROL LABORATUVARI
INTERTEK İSTANBUL PRIVATE FOOD CONTROL LABORATORY

MUAYENE VE ANALİZ RAPORU
EXAMINATION & ANALYSIS REPORT

Rapor No/ ***Report No***: FS10165672	Yayımlandığı Tarih/ ***Date***: 09/03/2022

Analizler / ***Analyses***

No	Analiz Adı ***Analysis Name***	Sonuç ***Results***	Ölçüm Limiti ***LOQ***	Geri Kazanım ***Recovery***	Ölçüm Belirsizliği ***Uncertainty***	Metot ***Method***	Limit ***Requirement***	Değerlendirme ***Interpretation***
4	Toplam migrasyon (Yağlı Gıda, Gıda Benzeri D1, % 50 Etanol) Daldırma / İmmersion 40°C, 10 gün / 40°C, 10 d.* ***Determination of Overall Migration (Fatty Food,Food Simulant D1, Ethanol(50%))****	2,9 mg/dm²	2 mg/dm²	-	-	TS EN 1186-3	<= 10 mg/dm² a	Uygun : ***Pass***
5	Primer Aromatik Aminlerin Spesifik Migrasyonu Toplamı CAS: 00108-45-2 (mPDA), CAS: 823-40-5 (2,6-TDA), CAS: 95-80-7 (2,4-TDA), CAS: 2243-62-1 (1,5-DAN), CAS: 62-53-3 (ANL), CAS: 101-80-4 (4,4-DPE), CAS: 101-77-9 (4,4-MDA), CAS: 00119-93-7(3,3-DMB), CAS: 95-53-4 (o-T) Test Koşulu: %3 Asetik Asit, 40 °C, 10 Gün / Test Condition: 3% Acetic Acid, 40°C, 10 Days.* ***Specific Migration of Primary Aromatic Amines Sum of: Specific Migration of Primary Aromatic Amines****	Tespit Edilemedi / Not Detected mg/kg	0,007 mg/kg	%76	-	EN 13130-1 EUR 24815 EN 2011	<= 0,01 mg/kg a	Uygun : ***Pass***
6	Bakır (Cu) Migrasyonu (%3 Asetik Asit, 40°C, 10 gün / 3% Acetic Acid, 40°C, 10 days)* ***Migration of Copper (Cu)****	Tespit Edilemedi / Not Detected mg/kg	0,007 mg/kg	-	-	TS EN 13130-1 ISO 17294-1&2	<= 5 mg/kg c	Uygun : ***Pass***

Özgür Can Feridun
Numune Kabul ve Raporlama Birim Sorumlusu / ***Supervisor of Sample Receiving and Reporting Section***

Ecem Paşahan Onur
Ambalaj Analiz Birim Sorumlusu / ***Supervisor of Food Contact Materials Analysis Section***

Melek Harmancı
Mineral Analiz Birim Sorumlusu / ***Supervisor of Mineral Analysis Section***

09/03/2022

Tasdik Olunur / ***Approved by***
Laboratuvar Müdürü / ***Laboratory Manager***
Çiğdem Kalın Vatansever

Bu analiz raporu adı -dan işlemlerde ve reklam amacıyla kullanılamazBu analiz raporunun hiçbir bölümü laboratuvarın yazılı izni olmadan kısmen kopyalanış, çoğaltılamaz, bir başına veya ayrı ayrı kullanılamaz. Müşteri bilgileri ve numune bilgileri müşteri tarafından sağlanmıştır. Bilginin müşteri tarafından sağlandığı durumlar hariç, raporda verilen tüm bilgilerden laboratuvarımız sorumludur. Bu rapor (üst yazı ve ekler dahil), müşteri tarafından sağlanan numuneye ait tanım, talimat,bilgi, materyal ve/veya kopyalar temelinde raporda belirtilen müşterinin talebine uygun olarak monitorler kullanımı için hazırlanmıştır. Analiz sonuçları yukarıda belirtilen numune için geçerlidir. İmzasız ve mühürsüz raporlar geçersizdir.
The whole and/or the part of this report shall not be reproduced and shall not be shared with third parties, nor to be used for juridical - official and PR activities without the written permission of INTERTEK Test Hizmetleri A.S. Customer informations and sample informations are provided by Intertek's Customer. The laboratory shall be responsible for all the information provided in the report, except when information is provided by the customer. This report (including any enclosures and attachments) are prepared for the exclusive use of the Customer(s) named in the report and on the basis of instructions, informations, conditions and/or materials supplied by Intertek's Customer. The results given herein apply to the submitted sample only. Reports are invalid without signature and seal.

Intertek Test Hizmetleri A.S.
Merkez Mahallesi Sanayi Caddesi No:23 Altındağ Plaza
Yenibosna - İstanbul 34197
web: http://www.intertekfoodturkey.com/

Tel : 0 212 496 47 80
Faks : 0 212 652 36 02
e-mail: intertek.turkey@ha01.kep.tr, foodlab.turkey@intertek.com

MUAYENE VE ANALİZ RAPORU
EXAMINATION & ANALYSIS REPORT

Rapor No/ ***Report No***: FS10165672	Yayımlandığı Tarih/ ***Date***: 09/03/2022

Analizler / ***Analyses***

No	Analiz Adı ***Analysis Name***	Sonuç ***Results***	Ölçüm Limiti **LOQ**	Geri Kazanım ***Recovery***	Ölçüm Belirsizliği ***Uncertainty***	Metot ***Method***	Limit ***Requirement***	Değerlendirme ***Interpretation***
7	Baryum (Ba) Migrasyonu (%3 Asetik Asit, 40°C, 10 gün / 3% Acetic Acid, 40°C, 10 days)* ***Migration of Barium (Ba)****	Tespit Edilemedi / Not Detected mg/kg	0,007 mg/kg	-	-	TS EN 13130-1 ISO 17294-1&2	<= 1 mg/kg ¿	Uygun : ***Pass***
8	Çinko (Zn) Migrasyonu (%3 Asetik Asit, 40°C, 10 gün / 3% Acetic Acid, 40°C, 10 days)* ***Migration of Zinc (Zn)****	0,035 mg/kg	0,01 mg/kg	-	-	TS EN 13130-1 ISO 17294-1&2	<= 5 mg/kg ¿	Uygun : ***Pass***
9	Demir (Fe) Migrasyonu (%3 Asetik Asit, 40°C, 10 gün / 3% Acetic Acid, 40°C, 10 days)* ***Migration of Iron (Fe)****	0,01 mg/kg	0,008 mg/kg	-	-	TS EN 13130-1 ISO 17294-1&2	<= 48 mg/kg ¿	Uygun : ***Pass***
10	Kobalt (Co) Migrasyonu (%3 Asetik Asit, 40°C, 10 gün / 3% Acetic Acid, 40°C, 10 days)* ***Migration of Cobalt (Co) ****	Tespit Edilemedi / Not Detected mg/kg	0,007 mg/kg	-	-	TS EN 13130-1 ISO 17294-1&2	<= 0,05 mg/kg ¿	Uygun : ***Pass***
11	Lityum (Li) Migrasyonu (%3 Asetik Asit, 40°C, 10 gün / 3% Acetic Acid, 40°C, 10 days)* ***Migration of Lithium (Li) ****	Tespit Edilemedi / Not Detected mg/kg	0,008 mg/kg	-	-	TS EN 13130-1 ISO 17294-1&2	<= 0,6 mg/kg ¿	Uygun : ***Pass***
12	Mangan (Mn) Migrasyonu (%3 Asetik Asit, 40°C, 10 gün / 3% Acetic Acid, 40°C, 10 days)* ***Migration of Manganese (Mn)****	Tespit Edilemedi / Not Detected mg/kg	0,007 mg/kg	-	-	TS EN 13130-1 ISO 17294-1&2	<= 0,6 mg/kg ¿	Uygun : ***Pass***

Özgür Can Feridun Numune Kabul ve Raporlama Birim Sorumlusu / ***Supervisor of Sample Receiving and Reporting Section***

Ecem Paşahan Omur Ambalaj Analiz Birim Sorumlusu / ***Supervisor of Food Contact Materials Analysis Section***

Melek Harmancı Mineral Analiz Birim Sorumlusu / ***Supervisor of Mineral Analysis Section***

09/03/2022

Tasdik Olunur / ***Approved by***
Laboratuvar Müdürü / ***Laboratory Manager***
Çiğdem Kalın Vatansever

T.C. TARIM VE ORMAN BAKANLIĞI
T.C. MINISTRY of AGRICULTURE and FORESTRY
INTERTEK TEST HİZMETLERİ A.Ş.
İSTANBUL ÖZEL GIDA KONTROL LABORATUVARI
INTERTEK İSTANBUL PRIVATE FOOD CONTROL LABORATORY
TÜRKAK TS EN ISO/IEC 17025 AB-0532-T FS10165672 03-22
intertek Total Quality. Assured.
MUAYENE VE ANALİZ RAPORU
EXAMINATION & ANALYSIS REPORT
Rapor No/ ***Report No***: FS10165672 Yayımlandığı Tarih/ ***Date***: 09/03/2022

Analizler / ***Analyses***

No	Analiz Adı ***Analysis Name***	Sonuç ***Results***	Ölçüm Limiti **LOQ**	Geri Kazanım ***Recovery***	Ölçüm Belirsizliği ***Uncertainty***	Metot ***Method***	Limit ***Requirement***	Değerlendirme ***Interpretation***
13	Alüminyum (Al) Migrasyonu (%3 Asetik Asit, 40°C, 10 gün / 3% Acetic Acid, 40°C, 10 days)* ***Migration of Aluminium (Al)****	Tespit Edilemedi / Not Detected mg/kg	0,008 mg/kg	-	-	TS EN 13130-1 ISO 17294-1&2	<= 1 mg/kg ¿	Uygun : ***Pass***
14	Nikel (Ni) Migrasyonu (%3 Asetik Asit, 40°C, 10 gün / 3% Acetic Acid, 40°C, 10 days)* ***Migration of Nickel (Ni)****	Tespit Edilemedi / Not Detected mg/kg	0,007 mg/kg	-	-	TS EN 13130-1 ISO 17294-1&2	<= 0.02 mg/kg ¿	Uygun : ***Pass***
15	Fitalat: Benzil Bütil Fitalat (BBP) Fitalik Asit Benzil bütil ester CAS No: 85-68-7 FCM No: 159* ***Butyl Benzyl Phthalate (BBP) Phthalatec Acid Benzyl butyl ester CAS No: 85-68-7 FCM No: 159****	Tespit Edilemedi / Not Detected %	0.002 %	-	-	BS EN 14372	<= 0,1 % ¿	Uygun : ***Pass***
16	Fitalat: Di Bütil Fitalat (DBP) CAS No: 84-74-2 FCM No: 157* ***Di-n-Butyl Phthalate (DBP) CAS No: 84-74-2 FCM No: 157****	Tespit Edilemedi / Not Detected %	0.002 %	-	-	BS EN 14372	<= 0,05 % ¿	Uygun : ***Pass***
17	Fitalat: Bis (2-Etilheksil) Fitalat (DEHP) CAS No: 117-81-7 FCM No: 283* ***Di (Ethylhexyl) Phthalate (DEHP) CAS No: 117-81-7 FCM No: 283****	Tespit Edilemedi / Not Detected %	0.001 %	-	-	BS EN 14372	<= 0,1 % ¿	Uygun : ***Pass***

Özgür Can Feridun Numune Kabul ve Raporlama Birim Sorumlusu / ***Supervisor of Sample Receiving and Reporting Section***
Ecem Paşahan Omur Ambalaj Analiz Birim Sorumlusu / ***Supervisor of Food Contact Materials Analysis Section***
Melek Harmancı Mineral Analiz Birim Sorumlusu / ***Supervisor of Mineral Analysis Section***
09/03/2022
Tasdik Olunur / ***Approved by***
Laboratuvar Müdürü / ***Laboratory Manager***
Çiğdem Kalın Vatansever

Bu analiz raporu adlı olan işlemlerde ve reklam amacıyla kullanılamaz. Bu analiz raporunun hiçbir bölümü laboratuvarın yazılı izni olmadan kısmen kopyalanıp, çoğaltılamaz, tek başına veya ayrı ayrı kullanılamaz. Müşteri bilgileri ve numune bilgileri müşteri tarafından sağlanmıştır. Bilginin müşteri tarafından sağlandığı durumlar hariç, raporda verilen tüm bilgilerden laboratuvarımız sorumludur. Bu rapor (ekli yazı ve ekler dahil), müşteri tarafından sağlanan numuneye ait tanım, talimat, bilgi, materyal ve/veya koşullar temelinde raporda belirtilen müşterinin özel kullanımı için hazırlanmıştır. Analiz sonuçları yukarıda belirtilen numune için geçerlidir. İmzasız ve mühürsüz raporlar geçersizdir.
The whole and/or the part of this report shall not be reproduced and shall not be shared with third parties, nor to be used for juridical - official and PR activities without the written permission of INTERTEK Test Hizmetleri A.Ş. Customer informations and sample informations are provided by Intertek's Customer. The laboratory shall be responsible for all the information provided in the report, except when information is provided by the customer. This report (including any enclosures and attachments) are prepared for the exclusive use of the Customer(s) named in the report and on the basis of instructions, informations, conditions and/or materials supplied by Intertek's Customer. The results given herein apply to the submitted sample only. Reports are invalid without signature and seal.
Intertek Test Hizmetleri A.Ş.
Merkez Mahallesi Sanayi Caddesi No 23 Altındağ Plaza
Yenibosna - İstanbul 34197
web: http://www.intertekfoodturkey.com/
Tel : 0 212 496 47 80
Faks : 0 212 652 36 02
e-mail: intertek.turkey@hs01.kep.tr, foodlab.turkey@intertek.com

T.C. TARIM VE ORMAN BAKANLIĞI
T.C. MINISTRY of AGRICULTURE and FORESTRY
INTERTEK TEST HİZMETLERİ A.Ş.
İSTANBUL ÖZEL GIDA KONTROL LABORATUVARI
INTERTEK İSTANBUL PRIVATE FOOD CONTROL LABORATORY
TÜRKAK TS EN ISO/IEC 17025 AB-0532-T FS10165672 03-22
intertek Total Quality. Assured.
MUAYENE VE ANALİZ RAPORU
EXAMINATION & ANALYSIS REPORT
Rapor No/ ***Report No***: FS10165672 Yayımlandığı Tarih/ ***Date***: 09/03/2022

Analizler / ***Analyses***

No	Analiz Adı ***Analysis Name***	Sonuç ***Results***	Ölçüm Limiti **LOQ**	Geri Kazanım ***Recovery***	Ölçüm Belirsizliği ***Uncertainty***	Metot ***Method***	Limit ***Requirement***	Değerlendirme ***Interpretation***
18	Fitalat: Di-İzononil Fitalat (DINP) CAS No:28553-12-0 FCM No: 728* ***Di-Iso-Nonyl Phthalate (DINP) CAS No:28553-12-0 FCM No: 728****	Tespit Edilemedi / Not Detected %	0.022 %	-	-	BS EN 14372	<= 0,1 % ¿	Uygun : ***Pass***
19	Fitalat: Di-İzodesil Fitalat (DIDP) CAS No::26761-40-0 FCM No: 729* ***Di-Isodecyl Phthalate (DIDP) CAS No: 26761-40-0 FCM No: 729****	Tespit Edilemedi / Not Detected %	0.015 %	-	-	BS EN 14372	<= 0,1 % ¿	Uygun : ***Pass***

LOQ: Ölçüm Limiti / ***Limit of Quantification*** **LOD**: Tespit Limiti / ***Limit of Detection***

(¿) k=2 , % 95 güven aralığında genişletilmiş ölçüm belirsizliği, numune alma belirsizliği içermeyecek şekilde hesaplanmıştır. Aksi belirtilmediği sürece analiz değerlendirilmesinde Paylaşılan Risk Karar Kuralı (Basit Kabul Kuralı) uygulanır. Farklı karar kuralı uygulanan değerlendirmeler yorumlama notu olarak belirtilmiştir. / **The reported which is not contain sampling uncertainty value uncertainty is an expanded uncertainty calculated using a coverage factor of 2 which gives a level of confidence of approximately 95%. Unless otherwise specified, the results are evaluated according to Shared Risk Decision Rule (Simple Acceptance Rule). Other evaluation rules which are applied, indicated as interpretation comment.**

*İşaretli analiz TÜRKAK akreditasyon kapsamındadır. / ***Marked analysis is in scope of TÜRKAK accreditation**

Türk Akreditasyon Kurumu (TÜRKAK) deney raporlarının tanınması konusunda Avrupa Akreditasyon Birliği (EA) ile Çok Taraflı Anlaşma ve Uluslararası Laboratuvar Akreditasyon Birliği (ILAC) ile karşılıklı tanınma anlaşması imzalamıştır. / **Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports.**

* Türk Gıda Kodeksi Gıda ile Temas Eden Madde ve Malzemeler Tebliği 2019/44 ve Commision Regulation EU No:10/2011- EU 2020/1245 a göre değerlendirme yapılmıştır. / Analyses results were interpreted according to Turkish Food Codex Food Contact Matter and Material Communique 2019/44 and Commision Regulation EU No: 10/2011, amendment EU 2020/1245.

* Türk Gıda Kodeksi Gıda ile Temas Eden Madde ve Malzemeler Tebliği 2019/44 ve Commision Regulation EU No:10/2011'e göre değerlendirme yapılmıştır. / Analyses results were interpreted according to Turkish Food Codex Food Contact Matter and Material Communique 2019/44 and Commision Regulation EU No: 10/2011.

* Türk Gıda Kodeksi Gıda ile Temas Eden Madde ve Malzemeler Tebliği 2019/44 ve Commision Regulation EU No:10/2011- EU 2016/1416- EU 2017/752'e göre değerlendirme yapılmıştır. / Analyses results were interpreted according to Turkish Food Codex Food Contact Matter and Material Communique 2019/44 and Commision Regulation EU No: 10/2011, amendment EU 2016/1416, amendment EU2017/752.

Özgür Can Feridun Numune Kabul ve Raporlama Birim Sorumlusu / ***Supervisor of Sample Receiving and Reporting Section***
Ecem Paşahan Omur Ambalaj Analiz Birim Sorumlusu / ***Supervisor of Food Contact Materials Analysis Section***
Melek Harmancı Mineral Analiz Birim Sorumlusu / ***Supervisor of Mineral Analysis Section***
09/03/2022
Tasdik Olunur / ***Approved by***
Laboratuvar Müdürü / ***Laboratory Manager***
Çiğdem Kalın Vatansever

Bu analiz raporu adlı olan işlemlerde ve reklam amacıyla kullanılamaz. Bu analiz raporunun hiçbir bölümü laboratuvarın yazılı izni olmadan kısmen kopyalanıp, çoğaltılamaz, tek başına veya ayrı ayrı kullanılamaz. Müşteri bilgileri ve numune bilgileri müşteri tarafından sağlanmıştır. Bilginin müşteri tarafından sağlandığı durumlar hariç, raporda verilen tüm bilgilerden laboratuvarımız sorumludur. Bu rapor (ekli yazı ve ekler dahil), müşteri tarafından sağlanan numuneye ait tanım, talimat, bilgi, materyal ve/veya koşullar temelinde raporda belirtilen müşterinin özel kullanımı için hazırlanmıştır. Analiz sonuçları yukarıda belirtilen numune için geçerlidir. İmzasız ve mühürsüz raporlar geçersizdir.
The whole and/or the part of this report shall not be reproduced and shall not be shared with third parties, nor to be used for juridical - official and PR activities without the written permission of INTERTEK Test Hizmetleri A.Ş. Customer informations and sample informations are provided by Intertek's Customer. The laboratory shall be responsible for all the information provided in the report, except when information is provided by the customer. This report (including any enclosures and attachments) are prepared for the exclusive use of the Customer(s) named in the report and on the basis of instructions, informations, conditions and/or materials supplied by Intertek's Customer. The results given herein apply to the submitted sample only. Reports are invalid without signature and seal.

Rapor Sonu / ***End of Report***

Intertek Test Hizmetleri A.Ş.
Merkez Mahallesi Sanayi Caddesi No 23 Altındağ Plaza
Yenibosna - İstanbul 34197
web: http://www.intertekfoodturkey.com/
Tel : 0 212 496 47 80
Faks : 0 212 652 36 02
e-mail: intertek.turkey@hs01.kep.tr, foodlab.turkey@intertek.com

T.C. TARIM VE ORMAN BAKANLIĞI
T.C. MINISTRY of AGRICULTURE and FORESTRY

INTERTEK
İSTANBUL ÖZEL GIDA KONTROL LABORATUVARI
INTERTEK İSTANBUL PRIVATE FOOD CONTROL LABORATORY

MUAYENE VE ANALİZ RAPORU
EXAMINATION & ANALYSIS REPORT

AB-0532-T
FS10186490
11-22

Total Quality. Assured.

Rapor No/ ***Report No***: FS10186490	Yayımlandığı Tarih/ ***Date:*** 04/11/2022

Analizin Amacı/ Purpose of Analysis: Özel İstek / ***Private Demand***

Müşteri Bilgiler / *Customer Information*

Müşteri Adı / ***Customer Name***	Vetaş Plastik ve Ambalaj San.A.Ş.
Adres / ***Address***	Çerkezköy O.S.B., G.O.Paşa Mh. 3.Cd. No:3, Çerkezköy, Tekirdağ, TURKEY,

Numune Bilgileri / *Sample Information*

Adı / ***Name***	LDPE Mavi Torba - LDPE Blue Bag
Üretici Adı / ***Producer Name***	Vetaş Plastik ve Amb.San.A.Ş.
Tanımı ve Seri - Parti No / ***Description and Batch Number***	
Üretim ve Son Kullanma T.-TETT/ ***Production & Expiry Date-BBE***	
Ambalajı ve Miktarı / ***Package and Quantity***	1x kilitli poşet / zipped package
İlgili Kişi / ***Contact Person***	Nigar Şen [nigar@vetasplastik.com]
Numune kabul tarihi / ***Sample received / transport by***	14/10/2022 kargo / parcel services
Numune alım sıcaklığı / ***Sample temp when received***	
Numuneyi teslim alan ve mühür / ***Submitted by & Seal***	Müşteri Mühürsüz / Client None/
Teklif No / ***Quotation No***	5204
Analiz başlama ve bitiş zamanı / ***Start / End of analysis***	14.10.2022 / 03.11.2022
Açıklamalar / ***Remarks***	

Numunenin Fotoğrafı / ***Sample Photo***

D. Gamze Atay
Numune Kabul ve Raporlama Birim Sorumlusu / ***Supervisor of Sample Receiving and Reporting Section***

Melek Harmancı
Mineral Analiz Birim Sorumlusu / ***Supervisor of Mineral Analysis Section***

04/11/2022

Tasdik Olunur / ***Approved by***
Laboratuvar Müdürü / ***Laboratory Manager***
Ahu Uner Akbalık

Intertek Test Hizmetleri A.S.
Merkez Mahallesi Sanayi Caddesi No:23 Altındağ Plaza
Yenibosna - İstanbul 34197
web: http://www.intertekfoodturkey.com/
Tel : 0 212 496 47 80
Faks : 0 212 652 36 02
e-mail: intertek.turkey@hs01.kep.tr, foodlab.turkey@intertek.com

T.C. TARIM VE ORMAN BAKANLIĞI
T.C. MINISTRY of AGRICULTURE and FORESTRY

INTERTEK
İSTANBUL ÖZEL GIDA KONTROL LABORATUVARI
INTERTEK İSTANBUL PRIVATE FOOD CONTROL LABORATORY

MUAYENE VE ANALİZ RAPORU
EXAMINATION & ANALYSIS REPORT

AB-0532-T
FS10186490
11-22

Total Quality. Assured.

Rapor No/ ***Report No***: FS10186490 | Yayımlandığı Tarih/ ***Date:*** 04/11/2022

Analizler / *Analyses*

No	Analiz Adı ***Analysis Name***	Sonuç ***Results***	LOQ / LOD	Ölçüm Belirsizliği ***Uncertainty***	Geri Kazanım ***Recovery***	Cihaz ***Equipment***	Metot ***Method***	Limit ***Requirement***	Değerlendirme ***Interpretation***
1	Spesifik 23 Metal Plastik Migrasyonu(Li,Tb,Mg,Al,C a,La,Cr,Mn,Fe,Co,Ni,Cu, Zn,As,Na,K,Cd,Eu,Sb,Ba, Hg,Pb,Ga)* ***Specific 23 Metal Plastic Migration(Li,Tb,Mg,Al, Ca,La,Cr,Mn,Fe,Co,Ni,C u,Zn,As,Na,K,Cd,Eu,Sb, Ba,Hg,Pb,Ga)****	Sonuçlar ektedir / The results are attached	-	-	-	ICP-MS/ICP -OES	TS EN 13130-1 ISO 17294-1&2	= ektedir / as attached =	Uygun : ***Pass***

LOQ: Ölçüm Limiti / ***Limit of Quantification*** LOD: Tespit Limiti / ***Limit of Detection*** DY:***Not*** Değerlendirme Yapılamadı / ***Not Applicable***

(A) k=2 , % 95 güven aralığında genişletilmiş ölçüm belirsizliği, numune alma belirsizliği içermeyecek şekilde hesaplanmıştır. Akıl belirtilmediği sürece analiz değerlendirilmesinde Paylaşılan Risk Kararı Kuralı (Basit Kabul Kuralı) uygulanır. Riskli karar kuralı uygulanan değerlendirmeler uygunluk notu olarak belirtilmiştir. / **The reported which is not contain sampling uncertainty value uncertainty is an expanded uncertainty calculated using a coverage factor of 2 which gives a level of confidence of approximately 95%. Unless otherwise specified, the results are evaluated according to Shared Risk Decision Rule (Simple Acceptance Rule). Other evaluation rules which are applied, indicated as interpretation comment.**

*İşaretli analiz TÜRKAK akreditasyon kapsamındadır. / ****Marked analysis is in scope of TURKAK accreditation***

Deney laboratuvarı olarak faaliyet gösteren Intertek Test Hizmetleri A.Ş., TURKAK'dan AB-0532-T akreditasyon numarası ile TS EN ISO/IEC 17025 standardına göre akredite edilmiştir. Türk Akreditasyon Kurumu (TÜRKAK) deney raporlarının tanınırlığı konusunda Avrupa Akreditasyon Birliği(EA) ile Çok Taraflı Anlaşma ve Uluslararası Laboratuvar Akreditasyon Birliği (ILAC) ile karşılıklı tanıma anlaşması imzalamıştır. / **Intertek accredited by TURKAK under registration number: AB-0532-T for TS EN ISO/IEC 17025 as test laboratory. Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports.**

- Framework Regulation (EC) 1935/2004,Türk Gıda Kodeksi Gıda ile Temas Eden Madde ve Malzemeler Tebliği 2019/44 ve Commision Regulation EU No:10/2011- EU 2020/1245 e göre değerlendirme yapılmıştır. / Analyses results were interpreted according to Framework Regulation (EC) 1935/2004,Turkish Food Codex Food Contact Matter and Material Communique 2019/44 and Commision Regulation EU No: 10/2011,amendment EU 2020/1245.

D. Gamze Atay
Numune Kabul ve Raporlama Birim Sorumlusu / ***Supervisor of Sample Receiving and Reporting Section***

Melek Harmancı
Mineral Analiz Birim Sorumlusu / ***Supervisor of Mineral Analysis Section***

04/11/2022

Tasdik Olunur / ***Approved by***
Laboratuvar Müdürü / ***Laboratory Manager***
Ahu Uner Akbalık

Bu analiz raporu adı -dan/ -den işlemlerde ve reklam amacıyla kullandırılamaz.Bu analiz raporunun hiçbir bölümü laboratuvarın yazılı izni olmadan kısmen kopyalanıp, çoğaltılamaz, bir başka veya aynı ayrı ayrı kullanılamaz. Müşteri bilgileri ve numune bilgileri müşteri tarafından sağlanmıştır. Bilginin müşteri tarafından sağlandığı durumlar hariç, raporda verilen tüm bilgilerden laboratuvarımız sorumludur. Bu rapor (üst yazı ve ekler dahil), müşteri tarafından sağlanan numuneye ait tanım, tatmat,bilgi, materyal veyahut koşullar temelinde raporda belirtilen müşterinin talebine uygun olarak müntaker kullanımı için hazırlanmıştır. Analiz sonuçları yukarıda belirtilen numune için geçerlidir. İmzasız ve mühürsüz raporlar geçersizdir.
The whole and/or the part of this report shall not be reproduced and shall not be shared with third parties, nor to be used for juridical - official and PR activities without the written permission of INTERTEK Test Hizmetleri A.S. Customer informations and sample informations are provided by Intertek's Customer. The laboratory shall be responsible for all the information provided in the report, except when information is provided by the customer. This report (including any enclosures and attachments) are prepared for the exclusive use of the Customer(s) named in the report and on the basis of instructions, informations, conditions and/or materials supplied by Intertek's Customer. The results given herein apply to the submitted sample only. Reports are invalid without signature and seal.

Rapor Sonu / ***End of Report***

Intertek Test Hizmetleri A.S.
Merkez Mahallesi Sanayi Caddesi No:23 Altındağ Plaza
Yenibosna - İstanbul 34197
web: http://www.intertekfoodturkey.com/
Tel : 0 212 496 47 80
Faks : 0 212 652 36 02
e-mail: intertek.turkey@hs01.kep.tr, foodlab.turkey@intertek.com

Sayfa / Toplam Sayfa 2/3
Page / Total Pages

AB-0532-T
FS10186490
11-22

Total Quality. Assured.

Spesifik Metal Migrasyonu / ***Specific Migration of Metals***

AB 2020/1245 Yönetmeliği Ek V Madde 2.1 Fıkra gereği migrasyon limiti geçmiyor dahi olsa sonuç uygun olmayacaktır.Sonraki testlerde kesinlikle migrasyonda azalma olmalıdır.(According to the EU 2020/1245 Part 2.1.6 of Annex V to the Regulation requires , if the migration was to increase between the first, second and third test, the tests would not be suitable to verify compliance even in cases where the specific migration limit is not exceeded in any of them.There to the migration should be strictly decreasing in subsequent tests.

EU No.10/2011 sayılı Komisyon Yönetmeliğince EU 2020/1245 olarak yapılan değişiklik, ICP-MS analizleri / ***As per Commission Regulation (EU) No. 10/2011 and its amendment (EU) 2020/1245, by ICP/MS analysis (1)***

I. Test Koşulları / ***Test Conditions***

Rapor No/ Report No	Gıda veya Gıda Simulanı / ***Food or Food Simulant***	Süre (gün) / ***Time (day)***	Sıcaklık / ***Temperature*** (°C)	Gıda temas yüzey alanı hacim oranı / ***Ratio of food contact surface area to volume***	
FS10186490	3% (w/v) asetik asit / ***acetic acid***	10	40	dm^2 1	mL 100

II. Test Metodu / ***Test Method***

TS EN 13130-1, ISO 17294-1&2

III. Test Sonuçları / ***Test results:***

Element	Sonuç / ***Result*** (mg/kg)		Tespit Limiti / ***Detection limit*** (mg/kg)	SML Limit (mg/kg) (1)	Değerlendirme / ***Evaluation***
	1. Migrasyon / *1st migration*				
Baryum / ***Barium*** (Ba)	TED / ***ND***		0.007	1	Uygun/Pass
Kobalt / ***Cobalt*** (Co)	TED / ***ND***		0.007	0.05	Uygun/Pass
Bakır / ***Copper*** (Cu)	TED / ***ND***		0.007	5	Uygun/Pass
Demir / ***Iron*** (Fe)	0.01		0.008	48	Uygun/Pass
Lityum / ***Lithium*** (Li)	TED / ***ND***		0.008	0.6	Uygun/Pass
Mangan / ***Manganese*** (Mn)	TED / ***ND***		0.007	0.6	Uygun/Pass
Çinko / ***Zinc*** (Zn)	0.02		0.010	5	Uygun/Pass
Alüminyum / ***Aluminium*** (Al)	0.04		0.008	1	Uygun/Pass
Nikel / ***Nickel*** (Ni)	TED / ***ND***		0.007	0.02	Uygun/Pass
Antimon / ***Antimony*** (Sb)	TED / ***ND***		0.005	0.04	Uygun/Pass
Arsenik / ***Arsenic*** (As)	TED / ***ND***		0.0002	0.002	Uygun/Pass
Kadmiyum / ***Cadmium*** (Cd)	TED / ***ND***		0.0002	0.002	Uygun/Pass
Kurşun / ***Lead*** (Pb)	TED / ***ND***		0.0002	0.003	Uygun/Pass
Civa / ***Mercury*** (Hg)	TED / ***ND***		0.0006	0.007	Uygun/Pass
Europiyum / ***Europium*** (Eu)	TED / ***ND***	Toplam / ***Sum***	TED / ***ND***	0.005 toplam / sum (max.) 0.05	Uygun/Pass
Gadolinyum / ***Gadolinium*** (Gd)	TED / ***ND***				
Lantan / ***Lanthanum*** (La)	TED / ***ND***			0.005	
Terbiyum / ***Terbium*** (Tb)	TED / ***ND***			0.005	
Krom / ***Chromium*** (Cr) #	TED / ***ND***		0.005	0.01	Uygun/Pass
Kalsiyum / ***Calcium*** (Ca)	TED / ***ND***		0.1	-	Q5
Potasyum / ***Potassium*** (K)	TED / ***ND***		0.1	-	Q5
Magnezyum / ***Magnesium*** (Mg)	TED / ***ND***		0.1	-	Q5
Sodyum / ***Sodium*** (Na)	TED / ***ND***		0.1	-	Q5

TED / ***ND*** = Tespit Edilemedi / ***Not detected***

= Eğer toplam krom migrasyonu sonucu 0.01 mg/kg ve 3.6 mg/kg arasında ise, krom (VI) plastik malzemelerde tespit edilemez şekilde değerlendirilmektedir. / ***When migration of total chromium is between 0.01 mg/kg and 3.6 mg/kg, chromium (VI) content in plastic shall be not detected.***

T.C.
GAZİANTEP VALİLİĞİ
İL GIDA, TARIM VE HAYVANCILIK MÜDÜRLÜĞÜ
İŞLETME KAYIT BELGESİ

Kayıt No	:	**TR-27-K-006049**
İşletmecinin Adı-Soyadı / Tüzel Kişiliğin Adı	:	**Ritaş Kimya ve Tekstil San. Tic. A.Ş.**
İşletmenin Ticaret Unvanı	:	**Ritaş Kimya ve Tekstil San. Tic. A.Ş.**
Şirket, Kurum, Kuruluş Merkez Adresi	:	**2. Organize Sanayi Bölgesi Celal Doğan Bulvarı 11 Nolu Cad. No:10 Şehitkamil - Gaziantep / Türkiye**
İşletmenin Adresi	:	**2. Organize Sanayi Bölgesi Celal Doğan Bulvarı 11 Nolu Cad. No:10 Şehitkamil - Gaziantep / Türkiye**
İşletmenin Faaliyet Konusu	:	**Plastik esaslı madde ve malzeme üretimi**
Belgenin İlk Veriliş Tarihi	:	**09/01/2014**
Belgenin Değişiklik Tarihi	:	

İş bu belge, 5996 sayılı Kanunun 30 uncu maddesine dayanılarak düzenlenmiştir.

İbrahim YILMAZ
İl Müdürü

RİTAŞ
KİMYA ve TEKSTİL SAN.TİC.AŞ.

Yeni Otogar Yolu 2. Km. P.O.B. 66 Şehitkamil - Gaziantep / TÜRKİYE
Tel.: +90 342 3295000 - Fax: +90 342 3290971 - www.ritas.com.tr - ritas@ritas.com.tr

06.02.2024

MALZEME GÜVENLİK BİLGİ FORMU

KISIM 1 : ÜRÜN/FİRMA KİMLİĞİ

1.1. ÜRÜN ADI :

Polipropilen ve Polietilen Kumaş

1.2. FİRMA KİMLİĞİ

RİTAŞ KİMYA TEKSTİL SAN. TİC. A.Ş.

KISIM 2 : KİMYASAL VE FİZİKSEL BİLEŞENLER

2.1. KİMYASAL BİRLEŞİM:

Polipropilen

Antisiplit

UV

Yumuşatıcı

Polietilen

2.2. FİZİKSEL ANALİZ:

Katı ve kokusuz

3.3. GÖZ TEMASI: Tozu gözde tahriş veya göz yüzeyinde aşınmaya sebep olabilir.

KISIM 4 : İLK YARDIM

GENEL BİLGİLER : Aşağıda listelenen önlemler kritik durumlar için geçerlidir.

4.1. DERİ: Sabun ve soğuk su ile yıkayın.

4.2. GÖZ: Temiz suyla gözlerinizi yıkayınız , sonra doktora başvurunuz.

4.3. SOLUNUM: Temiz havaya çıkarın ve öksürük ve diğer şikâyetler devam ederse tıbbi yardım alın.

KISIM 5 : YANGIN TALİMATI

5.1. PARLAMA NOKTASI: > 450°C

5.2. HAVA İLE YANMA LİMİTLERİ: Bilinmiyor.

5.3. UYGUN SÖNDÜRÜCÜ MALZEMELER: Su, CO2, Kuru Kimyasallar

5.4. UYGUN OLMAYAN SÖNDÜRÜCÜ MALZEMELER: Su jeti

5.5. ÜRÜNÜN YANMASINDAN OLUŞAN GAZLARDAN KAYNAKLANAN ÖZEL TEHLİKELER : Yangın durumunda bu gazlar açığa çıkabilir; Karbondioksit (CO2),Karbonmonoksit (CO) Ürünlerin alev alması tehlikelidir. Yapımında kullanılan hidrokarbon ve aldehitler bir yangının ilk aşamalarının oluşumunu mümkün kılar.(Özellikle 400°C -700° C arasında)

5.6. EK BİLGİLER : Nefes alma aparatları giyinin. Sıcaklık değeri : 8.000-11.000 Kcal

KISIM 6 : KAZA YOLU İLE SALINIMLARI

6.1. SUDA ÇÖZÜNDÜĞÜNDE ZEHİRLİLİK: Bilinmiyor.

6.2. KENDİSİ VE TOZLARINI TEMİZLEME ADIMLARI: Atık kutusuna süpürülecek ve vakumlanacak .

6.3. KİMYASAL YOK ETME: Uygun değil.

KISIM 7 : SAKLAMA&YÜKLEME&BOŞALTMA

7.1. ÖN UYARI: Özel bir yükleme/boşaltma metodu yoktur.

7.2. SAKLAMA KOŞULLARI: Yanıcı ve uygun olmayan malzemelerle beraber saklanmamalıdır. Depolama alanı doğrudan güneş ışığını almamalıdır. Kuru ve 50C'nin altında ortamlarda saklanmalıdır.

KISIM 8 : IŞIK KONTROL-KİŞİSEL KORUMA

8.1. VANTILATÖR GEREKLİLİĞİ: Sadece pp tozu için.

8.2. GENEL KORUMA VE HİJYENİK ÖNLEMLER: Çalışırken bir şey yiyip içmeyiniz. Sigara içmeyiniz.

8.3. KORUYUCU EKİPMAN: PP Tozlarının yoğun olduğu ortamda onaylanmış hijyenik bir endüstriyel maske kullanılmalı.

8.4. GÖZ KORUNMASI : Gözle temasın olabileceği ortamlarda, uygun bir formda gözlük veya yüz camı kullanılmalıdır.

8.5. DERİ KORUNMASI: Gerekli değil.

8.6. EKSTRA EKİPMAN: Gerekli değil.

8.7. VÜCUT KORUNMASI : Normal tulum , güvenli ve kaymaz botlar ya da ayakkabılar.

KISIM 9 : FİZİKSEL VE KİMYASAL ÖZELLİKLER

9.1. FİZİKSEL DURUMU: Beyaz Katı

9.2. KAYNAMA DERECESİ: Tanımsız

9.3. ÖZGÜL AĞIRLIĞI: 0.89-0.93gr/m3,

9.4. KUMAŞ AĞIRLIĞI: Değişkendir.

9.5. SU İÇİNDE ÇÖZÜNME: İhmal edilebilir.

9.6. ERİME NOKTASI: 145-165°C

9.7. UÇUCU MADDELER: <%2

9.8. PATLAMA TEHLİKESİ: Ürün patlayıcı değildir

9.9. SUDA ÇÖZÜNÜRLÜK: Suda çözünmez.

9.10. BUHAR YOĞUNLUĞU: Tanımsız

KISIM 10 : STABİLİTE VE REAKSİYONA GİRME KABİLİYETİ

10.1. KAÇINILMASI GEREKEN TERMAL AYRIŞMA KOŞULLARI: Ürün normal depolama ve kullanma koşullarında sağlamdır.

10.2. UYGUNSUZLUK DURUMLARI: Sitrik asit ve türevlerinin içinde çürümeye eğilimlidir.

10.3. STABİLİTEYİ BOZAN KOŞULLAR: Aşırı ısıdan kaçınılmalıdır. 225C'den itibaren alev ışığı fiziksel zarar verir.

300C'den itibaren oksitlenmiş eriyik oluşur ve bu da hızlı sıcaklık artışına sebep olur.

Bu koşullar altında karbon monoksit, formaldehit ve akrolein açığa çıkar.

10.4. TEHLİKELİ REAKSİYONLARI: Bilinen tehlikeli reaksiyonu yoktur.

10.5. TEHLİKELİ ÜRÜNLERİN AYRIŞMASI: Oda sıcaklıklarında bilinen tehlikeli ürün ayrışması yoktur.

KISIM 11 : TOKSİKOLOJİK BİLGİLER

11.1. BİRİNCİL TAHRİŞ EDİCİ ETKİLER : Ürün zehirli değildir.

11.2. HASSASLAŞTIRMA: Bilinen hassaslaştırıcı etkisi yoktur.

KISIM 12 : EKOLOJİK BİLGİ

12.1. SUYU ZEHİRLEMESİ: Bu ürünlerin bilinen hiç bir toksikolojik etkisi yoktur.

12.2. DİĞER BİLGİLER: Ürünlerin geri dönüşümü mümkündür.

13.1. ÜRÜNLER: Mümkün olursa yeniden kullanınız ya da geri dönüştürünüz.

13.2. ATIK İMHA ETME: Yerel yönetmeliklere göre imha edilmelidir.

KISIM 14 : YÜKLEME BİLGİSİ

14.1. YÜKLEME BİLGİSİ: Ulusal ve uluslararası karayolu, demiryolu, denizyolu ve havayolu taşıma kurallarına göre bu ürün tehlikeli olarak sınıflandırılmamıştır.

KISIM 15 : EK BİLGİLER

İmalatını yapmış olduğumuz PP ve PE kumaşların ürün kullanım sırasında alınması gereken güvenlik önlemleri yukarıda belirtilmiş olup ek olarak aşağıdaki işlemler yapılmaktadır;

15.1. Toksik ve endüstriyel zararlı atıklardan arındırılarak imal edilmektedir.

15.2. Ürünlerin taşıma, sevkiyat ve son kullanıcı kullanım prosesine kadar dış etkenlerden olumsuz etkilenmemesi için minimum 50 mikron ve üzeri şeffaf ambalajlarının bulunması, yine taşıma ve kullanım sırasında ürün deformasyonunu önleyecek şekilde minimum 800 Newton mukavemete dayanıklı orjinalden imal karton masura kullanılmaktadır.

15.3. Ürünlerin gerek tarafımızda gerekse son kulanıcı proseslerinde kullanım kolaylığı ve güvenliği göz önüne alınarak özel müşteri talebi olmadığı sürece ürün gr/m²'sine bağlı olarak 1000 ile 3000 metre arasında imal edilmektedir.

15.4. Özel müşteri talepleri doğrultusunda 15.1.-15.2. ve 15.3. numaralı maddelerde bulunan şartları daha da güvenli hale getirebilmek için özel ambalaj, karton kutu, palet, streç ve çemberleme şekli ile ürünler güvenli hale getirilmektedir.

15.5. Kimyasal olarak üretim sırasında tamamen insan sağlığına hassasiyet gösterilmiş ve yukarıda yer alan teknik bilgilerde yer alan uyarıları kapsayan belirli lisans ve ruhsat sahibi rafinelerde üretilen hammaddeleri kullanmaktayız.

15.6. Kimyasal birleşim müşteri isteğine bağlı olarak belirlenir ve buna bağlı olarak formül düzenlenir.

Yukarıda belirtilen Malzeme Güvenlik bilgileri uyarı ve uygulamaları dikkate alınarak üretim yapılmaktadır.

HAZIRLAYAN	HAZIRLAYAN	ONAYLAYAN
KIDEMLİ İHRACAT UZMANI	KALİTE KONTROL SORUMLUSU	FABRİKA MÜDÜRÜ
İBRAHİM HALİL BOZDOĞAN	BAHAR BİLBEN KARAKUŞ	MEHMET KADIOĞLU
İmza :	İmza :	İmza :

İbrahim KALEOĞLU
06-02-2024

PRODUCT DATA SHEET

01.12.2023 Ed.16

Polyethylene

Borstar® FB2230

Linear Low Density Polyethylene for Film Extrusion

Description

Borstar® FB2230 is a high molecular weight linear low density polyethylene film grade combining excellent extrusion behavior, excellent draw down and superior mechanical properties

For films made of Borstar® FB2230, the high toughness remains in cold conditions.

Cas No. 25087-34-7

Borstar® FB2230 contains:

Antioxidant

Typical characteristics

Borstar® FB2230 can be described with following typical characteristics:

Bubble stability	Excellent ESCR and flex crack resistance
Good stiffness/toughness balance	High recyclate incorporation enabler

Applications

Borstar® FB2230 is intended for following applications:

Agricultural film	Heavy-duty sacks
Food packaging	Lamination film
Frozen food packaging	General packaging film

Physical properties

Property	Typical value *	Unit	Test method
Density	923	kg/m³	ISO 1183-1
Melt flow rate (190 °C/5 kg)	0.95	g/10min	ISO 1133-1
Melt flow rate (190 °C/21.6 kg)	22	g/10min	ISO 1133-1
Melting temperature	124	°C	ISO 11357-3

* Data should not be used for specification wort

BOREALIS

Polyethylene

Borstar® FB2230

Film properties

Property	Typical value *	Unit	Test method
Tensile Modulus MD[1]	280	MPa	ISO 527-3
Tensile Modulus TD[1]	370	MPa	ISO 527-3
Tensile strength MD[1]	55	MPa	ISO 527-3
Tensile strength TD[1]	45	MPa	ISO 527-3
Tensile strain at break MD[1]	510	%	ISO 527-3
Tensile strain at break TD[1]	750	%	ISO 527-3
Dart drop [1]	250	g	ISO 7765-1
Instrumented puncture test, Total penetration energy	20	J	ISO 7765-2
Tear resistance (Elmendorf) MD[1]	46	N/mm	ISO 6383/2
Tear resistance (Elmendorf) TD[1]	220	N/mm	ISO 6383/2
Haze [1]	80	%	ASTM D1003
Gloss 45° [1]	5	GU	ASTM D2457
Coefficient of friction (Dynamic)[1]	0.40	-	ISO 8295

* Data should not be used for specification work

[1] *Film properties measured on 40 µm blown film on 60 mm Windmöller & Hölscher extruder L/D = 30, die diameter 200 mm, die gap 1.4 mm, BUR =3:1, FLH = 3,5DD*

Processing techniques

Borstar® FB2230 is easily processed on conventional extruders.
Borstar® FB2230 can be processed in most types of blown film equipment, incl. LDPE, LLDPE or even HDPE extruders.
The balance of draw down properties and bubble stability is superior to conventional LLDPE and LDPE.
Thicknesses of 10 to >200µm can be processed with good bubble stability. Borstar FB2230 is well suited for co-extrusion.
Recommended extrusion temperature is 190-210°C. Conventional die gaps can be used without shark skin or draw down problems. A gap of 1.0 - 1.5 mm will give the best balance between extruder pressure and physical properties in the film. Wider die gap gives higher machine direction orientation and narrow die gap may give too high extruder pressure.
Borstar® FB2230 is sensitive to the orientation obtained by the film blowing conditions like Blow Up Ratio (BUR) and Frost Line Height (FLH). Higher impact can be achieved by rising the FLH to 4DD. High BUR (>2) also results in better mechanical properties and better balance in MD/TD.
As a guideline the following conditions should be used.
FLH: 2 - 4 DD
BUR: 3:1

Packaging and storage

Borstar® FB2230 should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which can result in odour generation and colour changes and can have negative effects on the physical properties of this product.

Product compliance documents

Latest versions of product safety information sheets (PSIS), product safety data sheets (SDS) and other product liability documents are available in our website www.borealisgroup.com.

Sustainability aspects

Borealis is ever mindful of the impact of our products on the planet. We promote Design for Circularity (DfC) and Design for Recycling (DfR) to conserve natural resources and to reduce the environmental impact of products over their entire lifetime (including production, use phase and after phase). DfR helps ensure that material can be effectively recycled while maximizing the material performance efficiency.

Further information on sustainability and Design for Recycling (DfR) can be found from our websites www.borealisgroup.com and www.borealiseverminds.com.

Borstar® is a registered trademark of the Borealis Group

BOREALIS

Polyethylene

Borstar® FB2230

Disclaimer

The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.
To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however we do not assume any liability whatsoever for the accuracy and completeness of such information.
Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.
It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.
No liability can be accepted in respect of the use of any Borealis product in conjunction with any other products and/or materials. The information contained herein relates exclusively to our products when not used in conjunction with any other material unless as specifically provided for in the test methods stated above.

Borealis AG | Trabrennstrasse 6-8 | A-1020 Vienna | Austria
Telephone: +43 1 22 400 0* | Fax: +43 1 22 400 333
Website www.borealisgroup.com

Borstar® is a registered trademark of the Borealis Group

BOREALIS

RİTAŞ KİMYA ve TEKSTİL SAN. TİC. A.Ş.	**TECHNICAL DATA SHEET OF FABRIC** KUMAŞ TEKNİK ÖZELLİKLERİ				
DATE (Tarih)	**14.11.2023**				
COLOUR (Renk)	**WHITE**				
PROPERTIES (Özellikler)	**UNITS** (Birimler)	**METHODS** (Metotlar)	**MEASURES** (Ölçümler)		**TOLERANCE** (Toleranslar)
			WARP (Çözgü)	**WEFT** (Atkı)	
WIDTH (En)	cm	RİTAŞ	**90**		±1 cm
WEIGHT (Birim Ağırlığı)	gsm	RİTAŞ	**56**		±%3
COATING (Lamine Ağırlığı)	gsm	RİTAŞ	**20**		±%3
TENSILE STRENGTH (Mukavemet)	kg/5 cm	ISO 13934-1	**60**	**60**	Min. kg/5 cm. ±5
ELONGATION (Uzama)	% min.	ISO 13934-1	**18**	**18**	% Min.
REINFORCEMENT STRENGTH (Takviye Mukavemeti)	kg/5 cm	ISO 13934-1	*		Min. kg/5 cm. ±5
CONDUCTIVE CONSTRUCTION (İletkenlik Yapısı)	cm	RİTAŞ	*		± 0,5 cm
UV PROTECTION (UV Dayanımı)	204 h (150 kly)	ISO 21898	Not less than 50% of original strength and elongation		Min. 50%
YAYIN TARİHİ: 25.03.2010	REV.TAR:12.04.2021	REV.NO:06		RT-FM-130	1

EGF

INDUSTRIAL PACKAGING

WWW.EGF.COM.TR

Dunnage Bags

Phone: +90 216 509 1126 (3 LINES) Fax: +90 216 509 1132

Phone: +90 216 509 1126 (3 LINES) Fax: +90 216 509 1132

Super Flow system

SuperFlow system offers unparalleled inflation speeds and innovative safety features that significantly reduce inflation time and labor costs. Used to inflate our air bags, our revolutionary inflators fill airbags faster than the standard inflator. Designed with the end user in mind, Blue SuperFlow inflators offer a unique safety feature that prevents over-inflation. Each device ceases airflow once optimal pressure is achieved, eliminating the risk of bag bursting during fill.

Step 1

Position the airbag at least 5 cm. above the floor and make sure that all parts of the airbag are inside the void area.

Step 2

Insert airtool into the valve and start inflating. When the desired air pressure has been reached, remove the airtool and close the cap tightly. The cap has a leakproof ring inside, which works as a secondary safety feature. When using our special blue Inflator gun, keep sqeezing the trigger untill you feel air coming from the openings of the tool. Do not release trigger untill the tool has been totally removed from the valve.

To deflate; push down on the middle stam of the valve and turn it anti-clockwise. Place bag into a container for reuse. It will deflate with the weight of additional bags.

Important: The inner pressure of the bag is determined by the outcome pressure of the compressor line. Make sure that the outcome pressure of the compressor is adjusted between 6 – 8 bars.

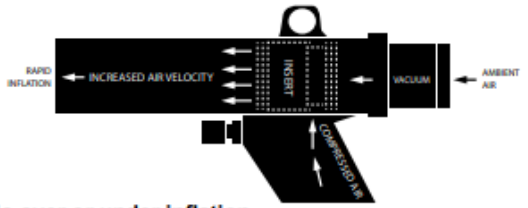
How the Venturi Design air tool Works

The velocity of compressed air is increased by forcing it through small pin holes in the inflator tool insert. The increase in velocity causes a vacuum, that sucks ambient air through the air tool's rear opening. This will provide 3 times faster inflation than any other inflating tool in the market. This special inflation unit creates a possibility for quick inflation by utilizing compressed air with ambient air.

How the Venturi Superflow system Works

The Superflow system consists of an inflator tool and the flapper valve. The air tool uses the pressured air together with ambient air, which causes huge amount of air to go through the wide opening of the flapper valve. When the desired pressure in the dunnage bag has been reached the air tool will stop inflating and the air stream will be reversed as to go from out of the back opening of the tool. You can feel the air coming by holding your hand at the back of the tool. This means that the bag is fully inflated. Keep squeezing the trigger untill you feel the air coming from the rear opening of the tool. The bags will not be over or under inflated. They will all have the same pressure inside.

When you release the trigger, the flapper of the valve will close with the help of the pressure inside the bag. This will leave you enough time to close the cap. Make sure you close the valve tightly.
To deflate the bag, open the cap and press the flapper with your finger for 2-3 seconds. Place bag into a container for reuse. It will deflate with the weight of additional bags.



ADVANTAGES

- **Fast and rapid inflation,**
- **Consistent air pressure. No over or under inflation.**
- **Re-usable**

SUPER FLOW Plastic Inflator

Input Pressure	Low pressure insert Output PSI	High Presure insert Output PSI
40 PSI	0.5	1.0
50 PSI	0.7	1.4
60 PSI	1.0	1.6
70 PSI	1.1	2.0
80 PSI	1.3	2.3
90 PSI	1.5	2.9
100 PSI	1.8	3.5
110 PSI	2.0	4.0
120 PSI	2.3	n/a

Low pressure

High Presure

TURBO FLOW Plastic Blue Inflator

Input Pressure	Output PSI
30 PSI	0.7
40 PSI	1.0
50 PSI	1.3
60 PSI	1.6
70 PSI	2.0
80 PSI	2.3
90 PSI	2.7
100 PSI	3.1

Reusable
Reuseable up to four times for light over-the-road shipments

Recyclable
Category 4 & 5 Recycling

Moisture Resistant
Naturally repels moisture; perfect for unpredictable weather conditions

EGF ENDÜSTRİYEL AMBALAJ SAN. TİC. LTD. ŞTİ.
Ph: +90 216 509 1126 (3 LINES) Fx: +90 216 509 1132
Yunus Emre Mah. Tabiat Sok. No: 19 Yenidoğan - Sancaktepe (ISTANBUL-TURKEY)

WWW.EGF.COM.TR