

Product Data Sheet

SUMITOMO POLYETHYLENE HDPE

F0554

High Density, Blown Film

| | |
|-------------------------------|---|
| Applications | For shopping and grocery bags, perforated rolls, trash bags and industrial liners. |
| Characteristics | Bimodal, high molecular weight high density polyethylene with a wide molecular weight distribution for easy processing. Produces film with high stiffness, tensile and impact strength. |
| Typical Processing Conditions | Extrusion temperature : 180 – 230 °C |

Typical Properties

| Physical | | Value | | Unit | Method |
|-----------------------------|-----------------|--------------------|-----------------|-------------------|-------------|
| Melt Index | 190 °C, 2.16 kg | 0.05 | | g/10min | ASTM D1238 |
| | 190 °C, 21.6 kg | 9.3 | | g/10min | ASTM D1238 |
| Density | | 0.951 | | g/cm ³ | ASTM D792-A |
| Film | | Value | | Unit | Method |
| | | Without Stabilizer | With Stabilizer | | |
| Tensile Strength at Yield | MD / TD | 35 / 30 | 35 / 30 | MPa | ASTM D882 |
| Tensile Strength at Break | MD / TD | 70 / 65 | 75 / 55 | MPa | ASTM D882 |
| Tensile Elongation at Break | MD / TD | 560 / 550 | 520 / 560 | % | ASTM D882 |
| Tensile Modulus, 1% Secant | MD / TD | 930 / 1030 | 990 / 1140 | MPa | ASTM D882 |
| Elmendorf Tear Strength | MD / TD | 17 / 39 | 11 / 78 | g | ASTM D1922 |
| Dart Drop Impact | | 340 | 280 | g | ASTM D1709 |
| Thermal | | Value | | Unit | Method |
| Vicat Softening Temperature | 10 N | 126 | | °C | ASTM D1525 |

The values shown are typical values measured on the product and are not to be considered as guaranteed specifications; actual test results may vary.

Test specimen preparation conditions : as per ASTM D4976

Blown film processing conditions : extruder ø 50 mm, die ø 120 mm, die gap 1.35 mm, temperature 200 °C, output 50 kg/h, BUR 4.0, thickness 20 µm, neck height 840 mm

Manufacturer

F0554 is manufactured in Saudi Arabia by Rabigh Refining & Petrochemical Co. (Petro Rabigh).
Petro Rabigh is an ISO 9001, ISO 14001 and OHSAS 18001 certified company.

Food Contact Application

Unmodified F0554 complies with the requirements of :

- US FDA Regulation 21 CFR 177.1520 and its amendments
- Regulation (EC) 1935/2004/EC (Framework), EU Commission Regulation 10/2011 (PIM), Commission Regulation (EC) No. 2023/2006 (GMP) and their respective amendments

Please contact your nearest SCA representative for more information.

Restriction of Hazardous Substances

The substances regulated under EU Directive 2011/65/EC and its amendment on RoHS in electrical and electronic equipment, are not used in the manufacturing process of F0554 and are therefore not expected to be present.

Storage and Handling

F0554 is supplied in 25 kg bags or in bulk containers depending on packaging options available for different markets. It is advisable to store in a well ventilated storage facility, protected from rain, direct exposure to sunlight, temperature and dust.

Moisture may accumulate inside the packaging if there is a significant fluctuation in ambient temperature and high relative humidity. If this occurs, customer is strongly advised to dry the resin prior to use. Direct exposure to sunlight and excessive ambient temperature may affect the properties, appearance and odor characteristic of the resin.

It is recommended to process F0554 within six months upon receipt.

Please refer to the Safety Data Sheet (SDS) for information regarding industrial health and safety issues.

Disposal and the Environment

SCA prioritizes environmental management in all our operations in responsibility and respect towards the community and the environment.

Unmodified F0554 is readily recyclable, both for reuse via reprocessing and for energy reclamation through incineration. If disposed in landfills, our products, which are inert materials, do not pose pollution risks since they do not generate gaseous or liquid emissions.

Office Locations**SUMITOMO CHEMICAL ASIA PTE LTD**

150 Beach Road, #17-07 Gateway West, SINGAPORE 189720

Phone +65 6303 5188

Fax +65 6298 9621

www.sumitomo-chem.com.sg

SUMIKA PLASTICS AND CHEMICALS TRADING (SHANGHAI) CO., LTD.

Unit 46-07 Grand Gateway II, No.3 Hongqiao Road, Xu Hui District, Shanghai, CHINA 200030

Phone +86 21 6448 2255

Fax +86 21 6407 7365

SUMIKA PLASTICS AND CHEMICALS TRADING (SHANGHAI) CO., LTD., GUANGZHOU BRANCH

Room 6404, Office Building, CITIC Plaza, No.233, North Tianhe Road, Guangzhou City, CHINA 510613

Phone +86 20 3877 3577

Fax +86 20 3877 3511

SUMITOMO CHEMICAL ASIA PTE LTD

Vietnam Representative Office, 7th Floor, Unit 701-3, Me Linh Point Tower, 2 Ngo Duc Ke Street, Dist. 01, Ho Chi Minh City, VIETNAM

Phone +84 8 3520 2767

Fax +84 8 3520 2911

SCA SOUTH ASIA PETROCHEMICALS PRIVATE LIMITED

Private Office No. 218, DBS Business Center, FF, World Trade Tower, Barakhamba Lane, Connaught Place, New Delhi 110001, INDIA

Phone +91 11 4050 9218

Fax +91 11 2341 4740

SUMITOMO CHEMICAL EUROPE S.A./N.V.

Woluwelaan, 57, B-1830 Machelen, BELGIUM

Phone +32 2 251 0650

Fax +32 2 251 2991

www.sumitomochemicaleurope.eu

SUMITOMO CHEMICAL EUROPE N.V.

Turkey Liaison Office, Barbaros Mah. Cigdem Sok. No:1, Agaoglu My Office K:10, D:44-45, 34746 Bati Atasehir, Istanbul, TURKEY

Phone +90 216 680 3334

Fax +90 216 680 1012

Disclaimer

All information contained in this document is provided in good faith and its sole purpose is to provide information regarding SCA's polymer products. This product catalogue is provided on an "as is" basis. SCA makes no representation, warranty, express or implied and assumes no liability as to the accuracy or completeness of any of the information contained in this product catalogue. The values shown are purely values measured on the product and are not to be considered as guaranteed specifications. Any information on this product catalogue should not be considered as a recommendation. Customer is responsible to ensure that SCA materials, whether used alone or mix with other materials, are suitable for the intended application. SCA expressly disclaims for any and all liability, including direct and indirect loss, consequential loss or damages based on or relating to the use or errors of and omissions of such information in this product catalogue. Information contained herein is NOT intended to announce product availability anywhere in the world. Please contact your nearest SCA representative for more detailed information.