SUMITOMO CHEMICAL ASIA

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/cm³	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

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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.

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