

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 blown film grade having high tensile and impact strength, good stiffness and barrier properties with a wide molecular weight distribution for easy processing. Performs well under heavy load conditions.
Typical Processing Conditions	Extrusion temperature : 180°C - 230°C Blow-up ratio : 3 - 5

Typical Properties

Physical		Value	Unit	Method	
Melt Index	2.16kg	0.05	g/10min	ASTM D1238	
	21.6kg	9.3	g/10min	ASTM D1238	
Density		0.951	g/cm ³	ASTM D792-A	
Thermal		Value	Unit	Method	
Vicat Softening Temperature	10N	126	°C	ASTM D1525	
Film		Value	Unit	Method	
		w/o stab ⁽¹⁾	w/ stab ⁽²⁾		
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	gf	ASTM D1922
Dart Drop Impact		340	280	g	ASTM D1709

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 pieces preparation condition : as per ASTM D4976

Blown film processing condition : extruder ø55mm, die ø120mm, die gap 1.35mm, temperature 200°C, output 50kg/hr, thickness 20µm, neck height 840mm

(1) without stabilizer, (2) with stabilizer ø108mm at top of the blown bubble neck

 SUMITOMO CHEMICAL ASIA**Manufacturer**

F0554 is manufactured in Saudi Arabia by Rabigh Refining & Petrochemical Co. (Petro Rabigh). Petro Rabigh is an ISO 9001, ISO 14001, and ISO 45001 certified company.

Regulatory Compliances

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 amendments, on RoHS in electrical and electronic equipment are not used in the manufacturing process, and are therefore not expected to be present in the product.

Storage and Handling

F0554 is supplied in 25kg bags or in bulk containers. 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 odour characteristic of the resin.

It is recommended to process F0554 within 6 months upon receipt.

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

Disposal and the Environment

SCA prioritises 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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