

Product Data Sheet

SUMITOMO POLYETHYLENE LLDPE

FS153S

Linear Low Density, Blown Film

Applications	For heavy duty liner, carrier bag, garment packaging, mulch film, and other general purpose film applications.
Characteristics	High strength film with excellent processability, high slip and antiblock properties. For higher transparency, blending with LDPE is recommended.
Typical Processing Conditions	Extrusion temperature : 180°C - 220°C Blow-up ratio : 2 - 3

Typical Properties

Physical		Value	Unit	Method
Melt Index	2.16kg	1.1	g/10min	ASTM D1238
Density		0.921	g/cm ³	ASTM D792-A
Thermal		Value	Unit	Method
Melting Temperature		122	°C	DSC
Film		Value	Unit	Method
Tensile Strength at Break	MD / TD	35 / 30	MPa	ASTM D882
Tensile Elongation at Break	MD / TD	740 / 840	%	ASTM D882
Tensile Modulus, 1% Secant	MD / TD	205 / 250	MPa	ASTM D882
Elmendorf Tear Strength	MD / TD	135 / 400	gf	ASTM D1922
Blocking Load		14	gf/100cm ²	ASTM D3354
Coefficient of Friction, Exterior	μ_s / μ_k	0.10 / 0.08		ASTM D1894
Dart Drop Impact		115	g	ASTM D1709
Haze		10	%	ASTM D1003
Gloss	45°	85		ASTM D2457

* modified

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

Film fabrication condition : extruder ø55mm, die ø125mm, die gap 2.0mm, temperature 200°C, output 30kg/hr, blow-up ratio 2.0, thickness 30µm

Manufacturer

FS153S 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 FS153S 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 SCE 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

FS153S 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 FS153S 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

SCE prioritises environmental management in all our operations in responsibility and respect towards the community and the environment.

Unmodified FS153S 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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