

## 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 <sup>3</sup>	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	g	ASTM D1922
Blocking Load		14	g/100cm <sup>2</sup>	ASTM D3354*
Coefficient of Friction, Exterior	$\mu_s / \mu_k$	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 OHSAS 18001 certified company.

**Food Contact Application**

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 SCA representative for more information.

**Restriction of Hazardous Substances**

The substances regulated under EU Directive 2011/65/EC on RoHS in electrical and electronic equipment are not used in the manufacturing process of FS153S and are therefore not expected to be present.

**Storage and Handling**

FS153S is supplied in 25kg 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.

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 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.

