

## 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
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
Tensile Elongation at Break	MD / TD	740 / 840	%
Tensile Modulus, 1% Secant	MD / TD	205 / 250	MPa
Elmendorf Tear Strength	MD / TD	135 / 400	gf
Blocking Load		14	gf/100cm <sup>2</sup>
Coefficient of Friction, Exterior	$\mu_s / \mu_k$	0.10 / 0.08	ASTM D1894
Dart Drop Impact		115	g
Haze		10	%
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 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**

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**

SCA 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.

**Office Locations****SUMITOMO CHEMICAL ASIA PTE LTD**

3 Fraser Street, #07-28 DUO Tower, SINGAPORE 189352  
Phone +65 6303 5188      Fax +65 6298 9621      Web Site [www.sumitomo-chem.com.sg](http://www.sumitomo-chem.com.sg)

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

1607, Ascendas Plaza, 333 Tian Yao Qiao 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 EUROPE S.A./N.V.**

Woluwelaan, 57, B-1830 Machelen, BELGIUM  
Phone +32 2 251 0650      Fax +32 2 251 2991      Web Site [sumitomochemicaleurope.eu](http://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

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