

Product Data Sheet

SUMITOMO POLYETHYLENE LLDPE

FS250B

Linear Low Density, Cast and Blown Film

Applications	For cast stretch film, lamination film, wires and cable, general purpose cast and blown film applications.
Characteristics	High strength, tough, and easy processability transparent cast film. Also used for wire and cable and high strength blown film, non-slip with excellent processability. For higher transparency, blending with LDPE is recommended.
Typical Processing Conditions	Cast extrusion temperature : 200°C - 280°C Blown extrusion temperature : 160°C - 200°C, blow-up ratio 2 - 3

Typical Properties

Physical		Value		Unit	Method
Melt Index	2.16kg	2.2		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
Thickness		20, cast	30, blown	μm	
Tensile Strength at Break	MD / TD	40 / 30	35 / 30	MPa	ASTM D882
Tensile Elongation at Break	MD / TD	670 / 850	765 / 925	%	ASTM D882
Tensile Modulus, 1% Secant	MD / TD	160 / 155	205 / 255	MPa	ASTM D882
Elmendorf Tear Strength	MD / TD	70 / 215	125 / 350	gf	ASTM D1922
Coefficient of Friction, Exterior	μ _s / μ _k	NA / NA	>0.51 / ND		ASTM D1894
Dart Drop Impact		65	90	g	ASTM D1709
Haze		0.7	20	%	ASTM D1003
Gloss	45°	150	50		ASTM D2457
Other		Value		Unit	Method
Flamability		HB			UL94

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

Cast film processing condition : extruder ø55mm, die width 600mm, die gap 1.2mm, temperature 280°C, chill roll temperature 30°C, output 50kg/hr, line speed 75m/min, thickness 20μm

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

Manufacturer

FS250B 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 FS250B 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

FS250B 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 FS250B 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 FS250B 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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