SUMITOMO CHEMICAL ASIA

Product Data Sheet

SUMITOMO POLYETHYLENE LLDPE

FS253S

Linear Low Density, Blown Film

Applications	For grocery bag, garment packaging, agriculture 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 : 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		0.922	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	765 / 925	%	ASTM D882
Tensile Modulus, 1% Secant	MD / TD	205 / 255	MPa	ASTM D882
Elmendorf Tear Strength	MD / TD	125 / 350	g	ASTM D1922
Blocking Load		14	$g/100cm^2$	ASTM D3354*
Coefficient of Friction, Exterior	μ_s / μ_k	0.11 / 0.08		ASTM D1894
Dart Drop Impact		90	g	ASTM D1709
Haze		15	%	ASTM D1003
Gloss	45°	55	%	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

FS253S 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 FS253S 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 FS253S and are therefore not expected to be present.

Storage and Handling

FS253S 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 FS253S 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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