

## Provisional Product Data Sheet

### SUMITOMO POLYETHYLENE LLDPE

### **FS350A**

Linear Low Density, Cast Film

#### Applications

For lamination film, stretch film, and other general purpose film applications.

Also for wire and cable applications.

#### Characteristics

High strength film, non-slip with excellent transparency and processability.

#### Typical Processing Conditions

Melt Temperature 200 – 280°C

### Typical Properties

Physical		Value	Unit	Method
Melt Index	2.16kg	3.1	g/10min	ASTM D1238
Density		0.922	g/cm <sup>3</sup>	ASTM D792-A
Thermal		Value	Unit	Method
Vicat Softening Temperature	10N	97	°C	ASTM D1525A
Melt Temperature		121	°C	DSC
Crystallisation Temperature		107	°C	DSC
Brittleness Temperature		< -50	°C	ASTM D746
Film		Value	Unit	Method
Tensile Strength at Break	MD / TD	35 / 25	MPa	ASTM D882
Tensile Elongation at Break	MD / TD	650 / 830	%	ASTM D882
Tensile Modulus, 1% Secant	MD / TD	160 / 165	MPa	ASTM D882
Elmendorf Tear Strength	MD / TD	65 / 180	g	ASTM D1922
Dart Drop Impact		90	g	ASTM D1709
Haze		0.6	%	ASTM D1003
Gloss	45°	155	%	ASTM D2457

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 D 4976 and ISO 1872-2.

Cast film extruder  $\phi$ 50mm, die width 600mm, lip gap 0.9mm, extrusion temperature 280°C, chill roll 30°C, output 33kg/hr, line speed 50m/min, thickness 20 $\mu$ m.

**Manufacturer**

FS350A is manufactured in Saudi Arabia by Rabigh Refining & Petrochemical Co. (Petro Rabigh).

**Food Contact Application**

Unmodified FS350A complies with the US FDA Regulation 21 CFR 177.1520 as well as with the EU Directive 2002/72/EC and its amendments for use in direct contact with food. Please contact your nearest SCA representative for more information.

**Restriction of Hazardous Substances**

The substances regulated under EU Directive 2002/95/EC on RoHS in electrical and electronic equipment are not used in the manufacturing process of FS350A and are therefore not expected to be present.

**Storage and Handling**

FS350A 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 characteristics of the resin.

Please refer to the Material Safety Data Sheet (MSDS) 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 world around us.

Unmodified, our polypropylene and polyethylene products are 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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