

## Product Data Sheet

### SUMITOMO POLYETHYLENE LLDPE

## **FS150A**

Linear Low Density, Blown Film

|                               |  |
|-------------------------------|--|
| Applications                  | For heavy duty bag, lamination film, stretch film, and other general purpose film applications.                            |
| Characteristics               | High strength film, non-slip with excellent processability.<br>For higher transparency, blending with LDPE is recommended. |
| Typical Processing Conditions | Extrusion temperature : 180°C - 220°C<br>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  |
| Dart Drop Impact            |         | 115       | g                 | ASTM D1709  |
| Haze                        |         | 7         | %                 | ASTM D1003  |
| Gloss                       | 45°     | 80        | %                 | 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 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**

FS150A 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 FS150A complies with the US FDA Regulation 21 CFR 177.1520 as well as with the EU Commission Regulation 10/2011, and their respective 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 FS150A and are therefore not expected to be present.

**Storage and Handling**

FS150A 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 FS150A 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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**Disclaimer**

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