



Technical Data Sheet

Product Name
SCGC™ LLDPE

Product Type
Linear Low Density Polyethylene

Product Grade
L2009FA

Product Description

L2009FA is a butene LLDPE resin without slip and antiblocking agent. It is recommended for general purpose bag with high productivity and can be blended with HDPE or LDPE to improve tear and seal strength.

Typical Application

- Heavy duty bag
- Industrial bag
- Agricultural film

Product Characteristics

- High productivity
- Good optical properties
- Can be blended with HDPE, LDPE
- Food contact applicable

International Compliance

- U.S FDA 21 CFR 177.1520
- Regulation (EU) No.10/2011
- Packaging and Packaging waste Directive 94/62/EC
- RoHS: Directive 2011/65/EU

Physical Properties

| Properties | Test Method | Typical Value | Unit |
|----------------------------|--|----------------------|----------------------|
| Melt Flow Rate | ASTM D 1238 @ 190 °C, 2.16 kg | 1.00 | g/10 min |
| Density | ASTM D 1505 | 0.920 | g/cm ³ |
| Melting Point | ASTM D 2117 | 122 | °C |
| Vicat Softening Point | ASTM D 1525 | 102 | °C |
| Brittleness Temperature | ASTM D 746 | < - 70 | °C |
| ESCR | ASTM D 1693 @ 50 °C (Condition B, Compression Molded, 25% Igepal) | > 1000 | hrs, F ₅₀ |
| Film Properties | | | |
| Tensile Strength at Yield | ASTM D 882 | MD: 120*, TD: 140* | kg/cm ² |
| Tensile Strength at Break | ASTM D 882 | MD: 380*, TD: 350* | kg/cm ² |
| Tensile Modulus, 2% Secant | ASTM D 882 | MD: 2650*, TD: 2770* | kg/cm ² |
| Elongation at Break | ASTM D 882 | MD: 1000*, TD: 1200* | % |
| Elmendorf Tear Strength | ASTM D 1922 | MD: 145*, TD: 370* | g |
| Dart Impact Strength | ASTM D 1709 | 130* | g |
| Haze | ASTM D 1003 | 15* | % |
| Gloss | ASTM D 2457 | 53* | % |

Note: (*) Properties obtained from film produced on a pilot line at TPE, 38 micron, BUR 2:1, MD = Machine Direction, TD = Transverse Direction. Conversion factor for changing unit from kg/cm² to MPa is divided by 10.2

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Processing Guidelines

The actual extrusion condition depends on type of using machine, size and film thickness of product required. Generally, melt temperature should be 180-200 °C and BUR= 1.5:1 or 3:1 is recommended.

Product Technical Assistance

For technical assistance or further information on this product or any other SCG Chemicals' products, please contact your SCG Chemicals technical services at the address as specified below.

Product Available Form

- Pellet

Product Packaging

- 25 kg loose bag
- 25 kg stretch wrap palletized
- 750 kg big bag
- Seabulk container

Storage

- Store in original container in tidy according to the manual of Handling and Storage from Thai Polyethylene Company Limited.
- Product(s) should be stored in dry and dust free location at temperature below 50 °C and protected from direct sunlight and/or heat, well-ventilated area, away from incompatible materials and food and drink, as this may lead to quality deterioration, which results in odour generation and colour changes and can have negative effects on the physical properties of this product.
- Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
- The storage area should be stable and not be slopped.

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