



Provisional Technical Data Sheet

Product Name

SCGC LLDPE

Product Type

Linear Low Density Polyethylene

Product Grade

L1221FA

Product Description

SCGC L1221FA 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 and LDPE to improve seal and tear strength.

Typical Application

- General purpose bag
- Lamination film
- Stretch cling film

Product Characteristics

- High productivity
- High elongation
- Good optical properties
- Food contact applicable

International Compliance

- Under evaluation

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate	ASTM D 1238 @ 190 °C, 2.16 kg	2.0	g/ 10 min
Density	ASTM D 792	0.918	g/cm ³
Melting Point	ASTM D 2117	122	°C
Viscat Softening Point	ASTM D 1525	99	°C
Brittleness Temperature	ASTM D 746	< -70	°C
ESCR	ASTM D 1693 (Method B, Compression Molded, 25% Igepal, 50 °C)	>1000	Hours, F ₀

Film Properties

Tensile Strength at Yield	ASTM D 882	MD : 100*, TD: 85*	kg/cm ²
Tensile Strength at Break	ASTM D 882	MD : 220*, TD: 130*	kg/cm ²
Tensile Modulus, 2% Secant	ASTM D 882	MD : 2000*, TD: 1900*	kg/cm ²
Elongation at Break	ASTM D 882	MD : 855*, TD: 790*	%
Elmendorf Tear Strength	ASTM D 1922	MD : 125*, TD : 330*	g
Dart Impact Strength	ASTM D 1709	90*	g
Haze	ASTM D 1003	10*	%
Gloss	ASTM D 2457	57*	%

Note: - The given values are typical values measured on the product. Values herein are not to be constructed as a product specification.

- Conversion factor for changing unit from kg/cm² to MPa is divided by 10.20.

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- (*) Properties obtained from experiments on a pilot line, Film thickness 38 microns, BUR 2:1, MD = Machine Direction, TD = Transverse Direction.



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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 with Blow up ratio (BUR) 2-3 times of die diameter.

Product Technical Assistance

For technical assistance or further information on this product, please contact Long Son Petrochemicals technical service or SCG Chemicals technical service at the address or telephone number as specified below.

Product Available Form

- Pellet

Product Packaging

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

Storage

- Store in original container in tidy according to the manual of Handling and Storage from SCG Chemicals 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 odor generation and color 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 sloped.

Safety

- The product is not classified as a hazardous material.
- Please see our Material Safety Data Sheet for details on various aspects of safety, recovery, and disposal of the products; for more information, contact your Long Son Petrochemicals technical service or SCG Chemicals technical service.



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Recycling

- The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.
- Please see our Material Safety Datasheet for details on various aspects of safety, recovery, and disposal of the products; for more information, contact your Long Son Petrochemicals technical service or SCG Chemicals technical service.

Related Documents

- The latest version of this document will be available at our website, www.lsp.com or www.sgchemicals.com, or can be obtained from the Long Son Petrochemicals technical service or SCG Chemicals technical service.
- The following related documents are available on request, and represent various aspects on the usability, safety, recovery, and disposal of the product.
 - Material Safety Data Sheet
 - Statement on compliance to food contact regulation.

Disclaimer

- The Applications specified herein is for reference only.
- It is customer's responsibilities to inspect and test the product for suitability of the customer's own use and purpose. The customer is responsible for appropriate, safe, legal use, processing, and handling of the product.
- To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication. We however do not assume any liability whatsoever for the accuracy and completeness of the information contained herein.
- We make no warranties which extend beyond the description herein. Nothing herein shall constitute any implied warranty of merchantability or fitness for a particular purpose.
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