



# Provisional Technical Data Sheet

Product Name

**SCGC™ LLDPE**

Product Type

**Linear Low Density Polyethylene**

Product Grade

**L1811FA**

## Product Description

SCGC™ L1811FA is a metallocene catalyst Linear low-density polyethylene (LLDPE) copolymer resin containing hexene (C<sub>6</sub>H<sub>12</sub>) as the comonomer (Ethylene-alpha-olefin-copolymer) without Slip and Antiblocking agent. This grade offers excellent tensile strength, puncture resistance and sealing properties. It is recommended for both monolayer and multilayer blown film applications. It can be blended with HDPE and LDPE for film properties improvement.

## Typical Application

- Food packaging
- Heavy duty bag
- Lamination film

## Product Characteristics

- Good mechanical properties
- Good seal strength
- Food contact applicable
- Barefoot (non slip/ anti-blocking agent)

## International Compliance

- Under evaluation

## Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate	ASTM D 1238 @ 190 °C, 2.16 kg	1.0	g/ 10 min
Density	ASTM D 1505	0.918	g/cm <sup>3</sup>
Melting Point	ASTM D 2117	118	°C
Viscat Softening Point	ASTM D 1525	106	°C
Brittleness Temperature	ASTM D 746	< -70	°C

## Film Properties

Tensile Strength at Break	ASTM D 882	MD : 500*, TD: 400*	kg/cm <sup>2</sup>
Tensile Modulus, 2% Secant	ASTM D 882	MD : 2000*, TD: 2100*	kg/cm <sup>2</sup>
Elongation at Break	ASTM D 882	MD : 700*, TD: 800*	%
Elmendorf Tear Strength	ASTM D 1922	MD : 300*, TD : 400*	g
Dart Impact Strength	ASTM D 1709	650*	g
Haze	ASTM D 1003	13*	%
Gloss	ASTM D 2457	35*	GU

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

- Conversion factor for changing unit from kg/cm<sup>2</sup> to MPa is divided by 10.20.

- (\*) Properties obtained from experiment on a pilot line, Film thickness 25 micron, 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 170-200°C with Blow up ratio (BUR) 1.5-3.5 times of die diameter.

## Product Technical Assistance

For technical assistance or further information on this product, please contact Long Son Petrochemicals technical services or SCG Chemicals technical services 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 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 services or SCG Chemicals technical services.

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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 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 services or SCG Chemicals technical services.

## Related Documents

- The latest version of this document will be available at our website, [www.lsp.com](http://www.lsp.com) or [www.scgchemicals.com](http://www.scgchemicals.com), or can be obtained from the Long Son Petrochemicals technical services or SCG Chemicals technical services.
- The following related documents are available on request, and represent various aspects on the usability, safety, recovery, and disposal of the product.
  - Safety Data Sheet
  - Declaration of compliance.

## 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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