Technical Data Sheet

Product Name
SCGC™ HDPE

Product Type
High Density Polyethylene

Product Grade
H619F

Product Description

SCGC™ HDPE H619F is a high-stiffness, high-density polyethylene resin designed for print webs made from co-extruded blown film and machine direction oriented film applications when blended with LDPE or LLDPE. It offers excellent moisture barrier performance, high-temperature resistance, and superior film stiffness. Its single-material PE structure aligns with recyclable packaging trends.

Typical Application

- General & industrial packaging
- MDOPE
- Co-extrusion blown film
- Laminated film and tube
- Stand up pouch
- Diaper back sheet

Product Characteristics

- High stiffness
- High thermal resistance
- Excellent compatibility with LLDPE/LDPE

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

- **Note :** Direct food contact is subjected to the extraction provisions of the regulation on the finished food contact package.

Physical Properties

Properties	Test Method	Typical Value	Unit
Density	ASTM D 1505	0.962	g/cm³
Melt Flow Rate at 190 °C and 2.16 kg	ASTM D 1238	0.70	g/10 min
Melting Point	ASTM D 2117	135	°C
VICAT Softening Temperature	ASTM D 1525	127	°C
Film Properties			
Tensile strength at Break	ASTM D 882	MD 45*, TD 47*	kg/cm²
2% secant modulus	ASTM D 882	MD 709*, TD 745*	MPa
Elongation at Break	ASTM D 882	MD 1251*, TD 1323*	%
Elemendoft Tear Strength	ASTM D 1922	MD 51*, TD 76*	g
Haze	ASTM D 1003	57	%

Note:
- The given values are typical value measured on the product. Values herein are not to be constructed as a product specification.
- (*) Properties obtained from experiment on a pilot line, Film thickness 50 micron, MD = Machine Direction, TD = Transverse Direction.

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Manufacturer website: https://www.scgchemicals.com/en

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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 180-210 Celsius.

Product Technical Assistance

For technical assistance or further information on this product or any other SCG Chemicals' products, 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

Storage

- Store in original container in tidy according to the manual of Handling and Storage from Thai Polyethylene Co., Ltd.
- 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 unlabelled containers. Use appropriate containment to avoid environmental contamination.
- The storage area should be stable and not be slopped.

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 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 Material Safety Datasheet for details on various aspects of safety, recovery and disposal of the products;
  for more information, contact your SCG Chemicals technical services.

Related Documents

- The latest version of this document will be available at our website, www.scgchemicals.com, or can be obtained from the 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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