



# 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/cm <sup>3</sup>
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
<b>Film Properties</b>			
Tensile strength at Break	ASTM D 882	MD 45*, TD 47*	kg/cm <sup>2</sup>
2% secant modulus	ASTM D 882	MD 709*, TD 745*	MPa
Elongation at Break	ASTM D 882	MD 1251*, TD 1323*	%
Elmendoft 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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### 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.

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