



TECHNICAL DATA SHEET

Product Type

High Density Polyethylene

Product Name

SCG HDPE

Product Grade

H619F

Product Description

SCG HDPE H619F is a high stiffness HDPE designed to improve film stiffness and barrier properties when co-extruded with LLDPE & LDPE. It also provide good film clarity & processability when used in the core layer with an excellent compatibility with LLDPE & LDPE

Typical Application

- Thin film requiring high stiffness such as bread bag, tissue packaging, diaper outer bag and magazine cover
- Laminated film and tube for both food packaging and consumer product

Product Characteristics

- Excellent film stiffness
- 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

Property	Test Method	Typical Value	Unit
Resin Properties			
Melt Flow Rate	ASTM D 1238 @ 190°C, 2.16 kg	0.7	g/10 min
Density	ASTM D 1505	0.962	g/cm ³
Melting Point	ASTM D 2117	135	°C
Vicat Softening Point	ASTM D 1525	127	°C
Film Properties			
Tensile Strength at Break, MD	ASTM D 882	42	MPa
Tensile Strength at Break, TD	ASTM D 882	35	MPa
Tensile Modulus, 2% Secant, MD	ASTM D 882	915	MPa
Tensile Modulus, 2% Secant, TD	ASTM D 882	1010	MPa
Elongation at Break, MD	ASTM D 882	730	%
Elongation at Break, TD	ASTM D 882	4	%
Elmendorf Tear Strength, MD	ASTM D 1922	8	g



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Elmendorf Tear Strength, TD

ASTM D 1922

261

g

Haze

ASTM D 1003

64

%

Film properties obtained from film 25 μm film thickness by SCG internal laboratory casting line with melt temperature 180°C.

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

Processing Guidelines

The actual processing condition depends on each machine type, size, and film thickness. Generally, melt temperature should be around 180-210°C.

Product Technical Assistance

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

Product Available Form

- Pellet
- 25 kg loose bag
- 25 kg stretch wrap palletized

Product Packaging

Storage

- Store in original container in tidy according to the manual of Handling and Storage from Thai Polyethylene Company Limited/ Thai Polypropylene 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 sloped.



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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 Plastics/SCG Performance Chemicals technical service.

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 Plastics/SCG Performance Chemicals technical service.

Related

- The latest version of this document will be available at our website, www.scgchemicals.com, or can be obtained from the SCG Plastics/SCG Performance 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 Datasheet
 - Statement on compliance to food contact regulations

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.
- No liability can be accepted in respect of the use of the product in conjunction with other materials. The information contained herein relates exclusively to the product when it is not used in conjunction with any third party's materials.