



Technical Datasheet

Product Name

SCGC™ HDPE

Product Type

High Density Polyethylene

Product Grade

H377C

Product Description

SCGC HDPE H377C is a bi-modal high density polyethylene resin for film casting and extrusion lamination to enhance film stiffness. It also provide good compatibility when blended with LDPE & LLDPE or co-extruded with LDPE and LLDPE.

Typical Application

- Blending or co-extrusion with LDPE and LLDPE to improve film stiffness for general flexible packaging product.

Product Characteristics

- Excellent stiffness
- Easy tearing in MD
- Excellent temperature resistance & scratch resistance

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	7.5	g/10 min
Density	ASTM D 1505	0.961	g/cm ³
Melting Point	ASTM D 2117	133	°C
Vicat Softening Point	ASTM D 1525	127	°C
Film Properties			
Tensile Strength at Break	ASTM D 882	MD : 37*, TD: 28*	MPa
Tensile Modulus, 2% Secant	ASTM D 882	MD : 706*, TD: 855*	MPa
Elongation at Break	ASTM D 882	MD : 859*, TD : 3*	%
Elmendorf Tear Strength	ASTM D 1922	MD : 8*, TD : 64*	g
Haze	ASTM D 1003	9*	%

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

- (*) Film properties obtained from film 25 micron film thickness by SCGC internal laboratory casting line with melt temperature 220°C

MD = Machine Direction, TD = Transverse Direction.

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Processing Guidelines

SCGC HDPE H377C is recommended to blend with general cast/coating PE resin to enhance processability or use 100% with co-extrusion cast/lamination machine. Generally, melt temperature should be around 220-240°C and 310-330°C for casting and extrusion lamination, respectively.

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 as specified below.

Product Available Form

- Pellet

Product Packaging

- 25 kg loose bag
- 25 kg stretch wrap palletized
- 750 kg big bag
- Sea bulk container

Storage

- Store in original container in tidy according to the manual of Handling and Storage from Thai Polyethylene 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 slopped.

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