Technical Data Sheet

Product Name
SCGC™ HDPE

Product Type
High Density Polyethylene

Product Grade
H377C

Product Description

SCGC HDPE H377C is a 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 stifness 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
- PL Certificate (JCII)

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
Melt Flow Rate at 190 °C and 2.16 kg	ASTM D 1238	7.50	g/10 min
Density	ASTM D 1505	0.961	g/cm³
Melting Point	ASTM D 2117	133	°C
VICAT Softening Temperature	ASTM D 1525	127	°C
Tensile Strength at Break	ASTM D 882	MD 37*, TD 28*	MPa
2% secant modulus	ASTM D 882	MD 706*, TD 855*	MPa
Elongation at Break	ASTM D 882	MD 859*, TD 3*	%
Elemendoft 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 µm film thickness by SCGC internal laboratory casting line with melt temperature 220°C, MD = Machine Direction, TD = Transverse Direction

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

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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 services 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 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.
- 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.