Technical Datasheet

Product Name
SCGC™ PP

Product Type
Polypropylene

Product Grade
P607F

Product Description

SCGC PP P607F is a homopolymer polypropylene resin without slip and antiblock agent designed for core layer of co-extrusion cast film, monolayer cast film application with high stiffness & clarity, and flat yarn with high tenacity for high speed slit tape machine with balance good mechanical properties for yarn application.

Typical Application

- Snack pouch
- Laminated film
- Metallized film
- Woven bag
- High speed slit tape

Product Characteristics

- High film stiffness/Good yarn tenacity
- Good clarity
- Good processability
- High productivity
- Good mechanical properties

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 @ 230°C, 2.16 kg	7.0	g/10 min
Density	ASTM D 1505	0.910	g/cm^3
Melting Point	ASTM D 2117	162	°C
Vicat Softening Point	ASTM D 1525	154	°C
Typical physical Properties			
Heat Deflection Temperature (HDT)	ASTM D 648 @ 4.6 kg/cm2	115	°C
Tensile Strength at Yield	ASTM D 638	350	kg/cm2
Tensile Strength at Break	ASTM D 638	200	kg/cm2
Elongation at Break	ASTM D 638	150	%
Flexural Modulus	ASTM D 790	13,450	kg/cm2
Notched Izod Impact Resistance	ASTM D 256 @ 23 °C	33	J/m
Film Properties			
Tensile Strength at Yield	ASTM D 882	MD: 28.4*, TD: 22.6*	MPa
Tensile Strength at Break	ASTM D 882	MD: 36.3*, TD: 8.82*	MPa
Tensile Modulus, 2% Secant	ASTM D 882	MD: 510*, TD: 382*	MPa
Elongation at Break	ASTM D 882	MD: 470*, TD: 20*	%
Flexural modulus	ASTM D 790	1600*	MPa
Haze	ASTM D 1003	9	%
Gloss	ASTM D 2457	84	%

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 25 micron, MD = Machine Direction, TD = Transverse Direction.

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

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Processing Guidelines

Recommended processing conditions:

- Cast Film: The actual extrusion condition depends on type of using machine, size and film thickness of product required. Generally, melt temperature should be around 200-230°C.
- Flat yarn: Processing temperature around 190 – 260 °C, Stretching Temperature 140 – 160 °C, Stretching Ratio 5 – 7 these conditions are only guideline. Actual processing conditions depends on machine type, screw configuration, product design and environment.

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

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.

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 service.

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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 service.

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 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 regulation.

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.