



TECHNICAL DATA SHEET

Product Type

Polypropylene Homopolymer

Product Name

SCG PP

Product Grade

P607F

Product Description

SCG PP P607F is a homopolymer polypropylene resin without slip and antiblock agent, and suitable for cast film application as a core layer of a co-extrusion film or a monolayer film requiring high film stiffness and high clarity

Typical Application

- As a core layer for co-extrusion cast film
- As a core layer for metallized film
- Monolayer cast film

Product Characteristics

- Good film stiffness
- Good optical property
- Low gels
- Excellent processability

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	7.0	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
Film Properties			
Tensile Strength at Yield, MD	ASTM D 882	28.4	MPa
Tensile Strength at Yield, TD	ASTM D 882	22.6	MPa
Tensile Strength at Break, MD	ASTM D 882	36.3	MPa
Tensile Strength at Break, TD	ASTM D 882	8.82	MPa
Tensile Modulus, 2% Secant, MD	ASTM D 882	510	MPa
Tensile Modulus, 2% Secant, TD	ASTM D 882	382	MPa
Elongation at Break, MD	ASTM D 882	470	%
Elongation at Break, TD	ASTM D 882	20	%
Flexural Modulus*	ASTM D 790	1608	MPa
Haze	ASTM D 1003	1.3	%
Gloss	ASTM D 2457	84	%



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Film properties obtained from film produced on cast pilot line at TPE, 25 micron, Melt temperature 220 °C, Cooling water temperature 20 °C.

*Flexural Modulus obtained from specimen 3 mm produced by injection molding.

Note: the given values are typical value measured on the product. Values herein are not to be constructed 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 200-230 °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

Product Packaging

- 25 kg loose bag
- 25 kg stretch wrap palletized
- 750 kg big bag
- Seabulk Container

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 slopped.



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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.