



TECHNICAL DATA SHEET

Product Name

SCG PP

Product Type

Homopolymer Polypropylene for Water Quenched Blown Film

Product Grade

P602F

Product Description

P602F is a Homopolymer polypropylene resin without slip and antiblock agent. It is recommended for water-quenched blown film for thick packaging with excellent optical properties and high productivity.

Typical Application

- Food packaging
- Display bag such as garment or souvenir etc. (> 100 micron)

Product Characteristics

- High productivity
- Excellent optical properties
- Blending with P600F for excellent clarity film
- Food contact applicable

International Compliance

- U.S FDA 21 CFR 177.1520
- Regulation (EU) No.10/2011
- Packaging and Packaging waste Directive 94/62/EC/CONEG

Physical Properties

Property	Test Method	Typical Value	Unit
Melt Flow Rate	ASTM D 1238 @ 230 °C, 2.16 kg	10	g/10 min
Density	ASTM D 1505	0.910	g/cm ³
Melting Point	ASTM D 2117	160	°C
Vicat Softening Point	ASTM D 1525	155	°C
Film Properties			
Tensile Strength at Yield	ASTM D 882	MD: 290*, TD: 200*	kg/cm ²
Tensile Strength at Break	ASTM D 882	MD: 280*, TD: 260*	kg/cm ²
Tensile Modulus, 2% Secant	ASTM D 882	MD: 7000*, TD: 5500*	kg/cm ²
Elongation at Break	ASTM D 882	MD: 850*, TD: 770*	%
Haze	ASTM D 1003	8*	%
Gloss	ASTM D 2457	75*	%

Note: : (*) Properties obtained from film produced on a pilot line at TPE, 25 micron, cooling water temperature 35 °C, MD = Machine Direction, TD = Transverse Direction. Conversion factor for changing unit from kg/cm² to MPa is divided by 10.2

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Processing Guidelines

The actual extrusion condition depends on type of using machine, size and film thickness of product required. Generally, melt temperature should be 190-210 °C, BUR = 1.5:1 is recommended, cooling water temperature not over than 20 °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.
- 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.

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