



TECHNICAL DATA SHEET

Product Name

SCG PP

Product Type

Polypropylene Impact Copolymer

Product Grade

P744J

Product Description

SCG PP P744J is an impact copolymer polypropylene resin designed for high speed injection molding process. This resin is recommended for product that requires high stiffness and high processability.

Typical Application

- Home appliance parts
- Washing Machine Tub
- Complicated industrial parts
- Any parts require good flow ability

Product Characteristics

- High stiffness and processability
- Good impact strength

International

- U.S FDA 21 CFR 177.1520
- UL Yellow Card E202743
- RoHS Directive 2011/65/EU
- UL 2157 - Electric Clothes Washing Machines and Extractors

Physical Properties

Property	Test Method	Typical Value	Unit
Melt Flow Rate	ASTM D 1238 @ 230°C, 2.16 kg	30	g/10 min
Density	ASTM D 1505	0.910	g/cm ³
Tensile Strength at Yield	ASTM D 638 @ Speed 50 mm/min	28	MPa
Tensile Strength at Break	ASTM D 638 @ Speed 50 mm/min	20	MPa
Flexural Modulus	ASTM D 790	1,420	MPa
Notched Izod Impact	ASTM D 256 @ 23°C	78	J/m
Notched Izod Impact	ASTM D 256 @ 0°C	55	J/m
Notched Izod Impact	ASTM D 256 @ -20°C	41	J/m
Rockwell Hardness	ASTM D 785	70	R-Scale
Melting Point	ASTM D 2117	163	°C
Heat Deflection Temperature (HDT)	ASTM D 648 @ 4.6 kg/cm ²	110	°C
Flammability	UL - 94	HB	-

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

SCG Performance Chemicals Co., Ltd.





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Processing Guidelines

The actual processing conditions depend on each machine type, product size, mold design and environment.

Recommended processing conditions:

Melt temperature: 230-270°C

Mold temperature: 25-70°C

Injection speed: Fast

Pressure (of Max. Pressure):

Injection 40-80%

Packing and Holding 30-60%

Back 10%

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

- Block 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 unlabelled containers. Use appropriate containment to avoid environmental contamination.
- The storage area should be stable and not be slopped.

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