



# Technical Data Sheet

Product Name  
**SCGC™ PP**

Product Type  
**Polypropylene Copolymer Resin**

Product Grade  
**P744J**

## Product Description

SCGC PP P744J is polypropylene impact copolymer 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 Compliance

- UL94 E202743
- RoHS Directive 2011/65/EU
- UL 2157 – Electric Clothes Washing Machines and Extractors
- U.S FDA 21 CFR 177.1520
- REACH Regulation (EC) No. 1907/2006

## Physical Properties

Properties	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 <sup>3</sup>
Melting Point	ASTM D 2117	163	°C
Heat Deflection Temperature (HDT)	ASTM D 648 @ 4.6 kg/cm <sup>2</sup>	115	°C
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
Flammability	UL-94	HB	-

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

Thai Polyethylene 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: 210-250 °C

Mold temperature: 25-70 °C

Injection speed: Fast

Screw speed: 40-70 rpm

Pressure: Injection: 40-80 %

Packing and Holding: 30-60%

Back: 10% of Max Pressure

### 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 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 sloped.

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