



# Technical Data Sheet

Product Name	<b>SCGC™ PP: Impact copolymer</b>
Product Grade	<b>P842J</b>

Product Type  
**Polypropylene Copolymer Resin**

## Product Description

SCGC™ PP P842J is high flowability polypropylene impact copolymer designed for injection molding process. This resin is recommended for product that requires very high stiffness and very high processability.

## Typical Application

- Home appliance parts
- Automotive parts
- Complicated industrial parts
- Injection parts required good flow ability

## Product Characteristics

- High stiffness and processability
- Good impact strength
- Low stress whitening

## International Compliance

- U.S. FDA 21 CFR 177.1520
- UL94 E202743
- RoHS Directive 2011/65/EU
- REACH Regulation (EC) No. 1907/2006
- Regulation (EU) No 10/2011

## Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate at 230 °C and 2.16 kg	ASTM D 1238	40	g/10 min
Density	ASTM D 1505	0.910	g/cm <sup>3</sup>
Melting Point	ASTM D 2117	163	°C
Heat Deflection Temperature @ 0.455 MPa	ASTM D 648	125	°C
Tensile Strength at Yield	ASTM D 638 @ Crosshead speed 50 mm/min	295	kg/cm <sup>2</sup>
Tensile Strength at Break	ASTM D 638 @ Crosshead speed 50 mm/min	180	kg/cm <sup>2</sup>
Flexural Modulus	ASTM D 790	15,500	kg/cm <sup>2</sup>
Izod Impact Strength at 23°C	ASTM D 256	75	J/m
Izod Impact Strength at 0 °C	ASTM D 256	50	J/m
Izod Impact Strength at -20 °C	ASTM D 256	40	J/m
Rockwell Hardness	ASTM D 785	80	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 Co., Ltd.
- 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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