



Technical Data Sheet

Product Name
**SCGC™ PP:
Impact copolymer**

Product Type
Polypropylene Copolymer Resin

Product Grade
P842J

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 ³
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 ²
Tensile Strength at Break	ASTM D 638 @ Crosshead speed 50 mm/min	180	kg/cm ²
Flexural Modulus	ASTM D 790	15,500	kg/cm ²
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.



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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.

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 Chemicals technical services.



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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 Chemicals technical services.

Related Documents

- The latest version of this document will be available at our website, www.scgchemicals.com, or can be obtained from the SCG Chemicals technical services.
- The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.
 - Safety Data Sheet
 - Declaration of Compliance

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.