Technical Data Sheet

Product Name
SCGC™ PP

Product Type
Polypropylene Copolymer Resin

Product Grade
P640J

Product Description

SCGC™ PP P640J is polypropylene impact copolymer resin. It is designed for injection molding process. This resin is recommended for product that that requires high impact strength with good stiffness and process ability.

Typical Application

- Automotive parts
- Electrical appliance parts
- Industrial uses
- Furniture
- Toy

Product Characteristics

- High impact strength
- Good stiffness
- Good process ability
- Food contact applicable

International Compliance

- U.S. FDA 21 CFR 177.1520
- Regulation (EU) No.10/2011
- Directive 94/62/EC
- RoHS Directive 2011/65/EU (RoHS 2)
- REACH Regulation (EC) No. 1907/2006
- UL Yellow card – E202743

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate	ASTM D 1238 @ 230 °C, 2.16 kg	10	g/ 10 min
Density	ASTM D 1505	0.91	g/cm^3
Melting Point	ASTM D 2117	163	°C
Vicat Softening Point	ASTM D 1525	150	°C
Heat Deflection Temperature (HDT)	ASTM D 648 @ 4.6 kg/cm^2	105	°C
Tensile Strength at Yield	ASTM D 638 @ Speed 50 mm/min	280	kg/cm^2
Tensile Strength at Break	ASTM D 638 @ Speed 50 mm/min	200	kg/cm^2
Flexural Modulus	ASTM D 790	12,000	kg/cm^2
Notched Izod Impact	ASTM D 256 @ 23 °C	98	J/m
Notched Izod Impact	ASTM D 256 @ 0 °C	59	J/m
Notched Izod Impact	ASTM D 256 @ -20 °C	39	J/m
Rockwell Hardness	ASTM D 785	70	R-Scale
% Shrinkage (2mmt) MD	TPE Method	1.3	%
TD	TPE Method	1.1	%
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.
- Conversion factor for changing unit from kg/cm^2 to MPa is divided by 10.20.

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Manufacturer website: https://www.scgchemicals.com/en

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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 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