



# Technical Data Sheet

Product Type

Polypropylene Resin

Product Name

SCGC™ PP

Product Grade

P700J

## Product Description

SCGC™ P700J is a homopolymer polypropylene resin designed for injection molding process. This resin is recommended for general purpose product.

## Typical Application

- Household product
- Toys
- Office accessory
- Food container
- Infant article
- Fruit basket

## Product Characteristics

- High productivity
- Odorless
- Good stiffness
- 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

## Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate	ASTM D 1238 @ 230 °C, 2.16 kg	12	g / 10 min
Density	ASTM D 1505	0.91	g/cm³
Melting Point	ASTM D 2117	163	°C
Vicat Softening Point	ASTM D 1525	155	°C
Heat Deflection Temperature (HDT)	ASTM D 648 @ 4.6 kg/cm²	110	°C
Tensile Strength at Yield	ASTM D 638	320	kg/cm²
Tensile Strength at Break	ASTM D 638	200	kg/cm²
Elongation at Break	ASTM D 638	650	%
Flexural Modulus	ASTM D 790	14,500	kg/cm²
Notched Izod Impact	ASTM D 256 @ 23 °C	37	J/m
Notched Izod Impact	ASTM D 256 @ 0 °C	20	J/m
Rockwell Hardness	ASTM D 785	90	R-Scale
Haze	ASTM D 1003	47	%
Gloss	ASTM D2457	51	%

**Note:** - The given values are typical values measured on the product. Values herein are not to be construed as a product specification.  
- Conversion factor for changing unit from kg/cm² to MPa is divided by 10.20.



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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: 210-230 °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 Long Son Petrochemicals' products, contact your Long Son Petrochemicals technical services or SCG Chemicals technical services at the address or telephone number as specified below.

### Product Available Form

- Pellet

### Product Packaging

- 25 kg loose bag
- 25 kg stretch wrap palletized
- 750 kg big bag

### Storage

- Store in original container in tidy according to the manual of Handling and Storage from SCG Chemicals 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.

### Safety

- The product is not classified as a hazardous material.
- Please see our Safety Data Sheet for details on various aspects of safety, recovery, and disposal of the products; for more information, contact your Long Son Petrochemicals technical services or 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 Safety Data Sheet for details on various aspects of safety, recovery and disposal of the products; for more information, contact your Long Son Petrochemicals technical services or SCG Chemicals technical services.

### Related Documents

- The latest version of this document will be available at our website, [www.lsp.com](http://www.lsp.com), [www.scgchemicals.com](http://www.scgchemicals.com), or can be obtained from your Long Son Petrochemicals technical services or 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.