



Technical Data Sheet

Product Name
SCGC™ PP

Product Type
Polypropylene Resin

Product Grade
P700J

Product Description

SCGC™ PP 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)
- EN 71 part 3 Safety of Toys
- 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/cm ³
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/cm ²	110	°C
Tensile Strength at Yield	ASTM D 638	320	kg/cm ²
Tensile Strength at Break	ASTM D 638	200	kg/cm ²
Elongation at Break	ASTM D 638	650	%
Flexural Modulus	ASTM D 790	14,500	kg/cm ²
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 value measured on the product. Values herein are not to be constructed 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 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.

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