



Technical Data Sheet

Product Name
SCGC™ PP

Product Type
Polypropylene Resin

Product Grade
P403J

Product Description

SCGC™ PP P403J is a homopolymer polypropylene resin suitable for general purpose product which required good impact resistance produced from injection molding process.

Typical Application

- Fruit Basket
- Household product
- Office accessory
- Food container
- Infant article
- Furniture

Product Characteristics

- Good impact resistance
- Odorless
- 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
- 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	3.5	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	350	kg/cm ²
Tensile Strength at Break	ASTM D 638	230	kg/cm ²
Elongation at Break	ASTM D 638	650	%
Flexural Modulus	ASTM D 790	15500	kg/cm ²
Notched Izod Impact	ASTM D 256 @ 23 °C	40	J/m
Haze	ASTM D 1003	50	%

Note:

- Conversion factor for changing unit from kg/cm² to MPa is divided by 10.20.
- There results above are under SCG's condition and method from specific sample, should be not used for representative to lot product qualities.

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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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