



# TECHNICAL DATA SHEET

Product Name

**SCG PP**

Product Type

**Polypropylene Resin for Injection Application**

Product Grade

**P403J**

## Product Description

SCG 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
- Directive 2002/95/EC (RoHS)
- EN 71 part 3

## Physical Properties

Property	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	0.910	g/cm <sup>3</sup>
Melting Point	ASTM D 2117	163	°C
Heat Deflection Temperature (HDT)	ASTM D 648 @4.6 kg/cm <sup>2</sup>	110	°C
Tensile Strength at Yield	ASTM D 638	320	kg/cm <sup>2</sup>
Tensile Strength at Break	ASTM D 638	250	kg/cm <sup>2</sup>
Elongation at Break	ASTM D 638	650	%
Flexural Modulus	ASTM D 790	13,500	kg/cm <sup>2</sup>
Notched Izod Impact	ASTM D 256 @ 23°C	41	J/m
Notched Izod Impact	ASTM D 256 @ 0 °C	25	J/m
Rockwell Hardness	ASTM D 785	85	Shore D
Haze	ASTM D 1003	50	%
Gloss	ASTM D 2457	65	%

### Note:

- Conversion factor for changing unit from kg/cm<sup>2</sup> to MPa is divided by 10.20
- 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: 210-230°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 service 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
- Seabulk 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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