



# TECHNICAL DATA SHEET

Product Name

**SCG PP**

Product Type

**Polypropylene Resin for Injection Application**

Product Grade

**P902J**

## Product Description

SCG PP P902J is a homopolymer polypropylene resin with excellent flow ability, high stiffness and high clarity. This grade is especially suitable for thin wall injection molding for food, beverage and general packaging.

## Typical Application

- Thin wall food and beverage packaging.
- Food containers, Drinking cups
- General thin wall products
- Household product

## Product Characteristics

- Excellent flow ability and high productivity.
- High clarity
- High stiffness-toughness balance

## International Compliance

- U.S. FDA 21 CFR 177.1520
- Regulation(EU) No.10/2011
- Directive 94/62/EC
- Directive 2002/95/EC (RoHS)

**Note:** Direct food contact is subjected to the extraction provisions of the regulation on the finished food contact package

## Physical Properties

Property	Test Method	Typical Value	Unit
Melt Flow Rate	ASTM D 1238 @ 230°C, 2.16 kg	60	g/10 min
Density	ASTM D 1505	0.910	g/cm <sup>3</sup>
Haze at 1 mm	ASTM D 1003	40	%
Flexural Modulus	ASTM D 790	16,500	kg/cm <sup>2</sup>
Notched Izod Impact Strength	ASTM D 256 @ 23°C	37	J/m
Tensile strength at yield	ASTM D 638	370	kg/cm <sup>2</sup>
Elongation at yield	ASTM D 638	9	%
Melting Point	ASTM D 2117	160	°C
Heat Deflection Temperature (HDT)	ASTM D 648 @ 4.6 kg/cm <sup>2</sup>	125	°C
% Shrinkage (2 mm) MD	TPE Method	1.00	%
% Shrinkage (2 mm) TD	TPE Method	1.28	%

Conversion factor for changing unit from kg/cm<sup>2</sup> to MPa is divided by 10.20

**Note:** 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: 10-50°C

Injection speed: Fast

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/ Thai Polypropylene 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 unlabeled containers. Use appropriate containment to avoid environmental contamination.
- The storage area should be stable and not be slopped.



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### 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 Plastics/SCG Performance Chemicals technical service.

### 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 Plastics/SCG Performance Chemicals technical service.

### Related

- The latest version of this document will be available at our website, [www.scgchemicals.com](http://www.scgchemicals.com), or can be obtained from the SCG Plastics/SCG Performance Chemicals technical service.
- The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.
  - Material Safety Datasheet
  - Statement on compliance to food contact regulations

### 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.
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