



Technical Data Sheet

Product Name
**SCGC™ PP:
Homopolymer**

Product Type

Polypropylene Resin

Product Grade

P901J

Product Description

SCGC™ P901J is polypropylene homopolymer with excellent flowability, high stiffness and high clarity. This grade is especially suitable for thin wall injection molding.

Typical Application

- Thin wall food and beverage packaging
- Automotive parts
- General thin wall products
- Household product

Product Characteristics

- High clarity
- High stiffness
- Excellent flowability and high productivity

International Compliance

- RoHS Directive 2011/65/EU
- U.S. FDA 21 CFR 177.1520
- REACH Regulation (EC) No. 1907/2006

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate at 230 °C and 2.16 kg	ASTM D 1238	70	g/10 min
Density	ASTM D 1505	0.910	g/cm ³
Heat Deflection Temperature at 4.6 kg/cm ²	ASTM D 648	125	°C
Tensile Strength at Yield	ASTM D 638 @ Crosshead speed 50 mm/min	360	kg/cm ²
Flexural Modulus	ASTM D 790	16,500	kg/cm ²
Izod Impact Strength at 23°C	ASTM D 256	38	J/m
%Shrinkage (2mm) MD	TPE Method	1.00	%
%Shrinkage (2mm) TD	TPE Method	1.25	%
Haze	ASTM D 1003	35	%

- 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: 210-250 °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 Co., Ltd.
- 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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