



Provisional Technical Data Sheet

Product Name

SCGC™ PP

Product Type

Polypropylene

Product Grade

P904J

Product Description

SCGC PP P904J is a homopolymer polypropylene resin for thin wall packaging and products with long path length. The resin was designed for high flowability, good properties balance (toughness and stiffness), good dimension stability and high clarity. This grade is especially suitable for injection molding process in food, beverage and general packaging application.

Typical Application

- Take away food containers
- Drinking cups
- Household products
- Thin wall injection products

Product Characteristics

- High flowability
- Good toughness and stiffness balance
- Good dimension stability
- High clarity

International Compliance

- U.S. FDA 21 CFR 177.1520
- Commission Regulation (EU) no. 10/2011

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	75	g/ 10 min
Density	ASTM D 1505	0.91	g/cm ³
Melting Point	ASTM D 2117	160	°C
Flexural Modulus	ASTM D 790	16,500	kg/cm ²
Notched Izod Impact Strength	ASTM D 256 @ 23°C	38	J/m
Heat Deflection Temperature (HDT)	ASTM D 648 @ 4.6 kg/cm ²	121	°C
Haze at 1 mm	ASTM D 1003	43	%
% Isotropic shrinkage (2 mm) MD/TD	TPE Method	0.90	%

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.

Thai Polyethylene Co., Ltd.





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Processing Guidelines

The actual processing conditions depend on each machine type, product size, mold design and environment.

Recommended processing condition:

Melt temperature: 210-270°C

Mold temperature: 20-50°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 services 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
- 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 unlabeled containers. Use appropriate containment to avoid environmental contamination.
- The storage area should be stable and not be slopped.

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