



Provisional Technical Data Sheet

Product Name

SCGC™ PP

Product Type

Polypropylene

Product Grade

P905J

Product Description

SCGC PP P905J is a homopolymer polypropylene resin with high flowability, ultra clarity and good mechanical property balance. It is particularly designed for the injection moulding of transparent packaging.

Typical Application

- Transparent packaging
- Thin wall injection products

Product Characteristics

- High flowability
- Outstanding transparency
- Good stiffness and toughness balance

International Compliance

- US FDA 21 CFR 177.1520
- Regulation (EU) No. 10/2011

Physical Properties

| Property | Test Method | Typical Value | Unit |
|---------------------------|------------------------------|---------------|-------------------|
| Melt Flow Rate | ISO 1133-1 @ 230 °C, 2.16 kg | 65 | g/ 10 min |
| Density | ASTM D 1505 | 0.91 | g/cm ³ |
| Flexural Modulus | ISO 178 | 1,650 | MPa |
| Charpy Impact Strength | ISO 179 @ 23°C | 2.5 | kJ/m ² |
| Tensile Strength at Yield | ISO 527 | 35 | MPa |
| Haze at 1 mm | ASTM D 1003 | 20 | % |
| Melting Point | ASTM D 2117 | 157 | °C |

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 condition:

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 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

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 sloped.

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