



TECHNICAL DATA SHEET

Product Name

SCG PP

Product Type

Polypropylene Resin for Injection Application

Product Grade

P701J

Product Description

SCG PP P701J is a homopolymer polypropylene resin suitable for general purpose product produced from injection molding process.

Typical Application

- Household product
- Toys
- Office accessory
- Food container
- Infant article
- Furniture

Product Characteristics

- High productivity
- Odorless
- High stiffness
- 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 | 12 | g/10 min |
| Density | ASTM D 1505 | 0.910 | g/cm ³ |
| Melting Point | ASTM D 2117 | 163 | °C |
| Vicat Softening | Point ASTM D 1525 | 155 | °C |
| Heat Deflection Temperature (HDT) | ASTM D 648 @ 4.6 kg/cm ² | 110 | °C |
| Tensile Strength at Yield | ASTM D 638 | 320 | kg/cm ² |
| Tensile Strength at Break | ASTM D 638 | 200 | kg/cm ² |
| Elongation at Break | ASTM D 638 | 650 | % |
| Flexural Modulus | ASTM D 790 | 15,500 | kg/cm ² |
| Notched Izod Impact | ASTM D 256 @ 23 °C | 34 | J/m |
| Notched Izod Impact | ASTM D 256 @ 0 °C | 20 | J/m |
| Rockwell Hardness | ASTM D 785 | 90 | R-Scale |
| Haze | ASTM D 1003 | 47 | % |
| Gloss | ASTM D 2457 | 51 | % |

Note:

- Conversion factor for changing unit from kg/cm² 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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