



Technical Data Sheet

Product Name
SCGC™ PP

Product Type
Polypropylene Resin

Product Grade
P750J

Product Description

SCGC™ PP P750J is a polypropylene resins which giving high clarity and contain anti-static agent, suitable for general purpose product produced from injection molding process.

Typical Application

- Clear food container
- Clear household product
- Articles required high transparency

Product Characteristics

- High clarity
- High gloss
- Good impact resistance
- Food contact applicable

International Compliance

- U.S. FDA 21 CFR 177.1520
- Regulation (EU) No. 10/2011
- Directive 94/62/EC
- RoHS Directive 2011/65/EU (RoHS 2)
- EN 71 part 3 Safety of Toys
- REACH Regulation (EC) No. 1907/2006

Physical Properties

| Properties | Test Method | Typical Value | Unit |
|-----------------------------------|------------------------------------|---------------|--------------------|
| Melt Flow Rate | ASTM D 1238 @ 230°C, 2.16 kg | 12 | g/10 min |
| Density | ASTM D 1505 | 0.91 | g/cm ³ |
| Melting Point | ASTM D 2117 | 150 | °C |
| Vicat Softening Point | ASTM D 1525 | 130 | °C |
| Heat Deflection Temperature (HDT) | ASTM D 648 @4.6 kg/cm ² | 90 | °C |
| Tensile Strength at Yield | ASTM D 638 | 300 | kg/cm ² |
| Tensile Strength at Break | ASTM D 638 | 220 | kg/cm ² |
| Elongation at Break | ASTM D 638 | 500 | % |
| Flexural Modulus | ASTM D 790 | 12,000 | kg/cm ² |
| Notched Izod Impact | ASTM D 256 @ 23°C | 65 | J/m |
| Notched Izod Impact | ASTM D 256 @ 0 °C | 39 | J/m |
| Rockwell Hardness | ASTM D 785 | 80 | R-Scale |

Note:

- Conversion factor for changing unit from kg/cm² to MPa is divided by 10.20.
- There results above are under SCG's condition and method from specific sample, should be not used for representative to lot product qualities.

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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 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 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 sloped.

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