



Technical Data Sheet

Product Type

Polypropylene Resin

Product Name

SCGC™ PP

Product Grade

P639AT

Product Description

SCGC PP P639AT is very high flowability polypropylene impact copolymer. It is designed for compounding and injection molding process. This resin is suggested for compounds that require low flow mark after injection process. It is suitable for various automotive parts.

Typical Application

- Automotive exterior/interior parts
- Compounding

Product Characteristics

- Very high flowability
- Stiffness and impact balance

International Compliance

- RoHS Directive 2011/65/EU
- Directive 2000/53/EC on ELV
- REACH Regulation (EC) No 1907/2006

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate	ISO 1133 @ 230°C, 2.16 kg	80	g/10 min
Density	ISO 1183	0.910	g/cm ³
Tensile Modulus	ISO 527	1,350	MPa
Tensile Strength at Yield	ISO 527	28	MPa
Charpy Impact Strength	ISO 179 @ 23°C	6.0	kJ/m ²
Rockwell Hardness	ISO 2039-2	95	°C
Heat Deflection Temperature	ISO 75 @ 0.45 MPa	90	°C

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 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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