



Technical Data Sheet

Product Name
SCGC™ PP

Product Type
Polypropylene Copolymer Resin

Product Grade
X811T

Product Description

SCGC PP X811T is high impact polypropylene copolymer designed for automotive compounds. This resin is recommended for product that require high impact strength with good processability.

Typical Application

- Automotive exterior/interior parts
- Compounding

Product Characteristics

- High impact strength
- Good flowability

International Compliance

- RoHS Directive 2011/65/EU
- Directive 2000/53/EC on ELV
- REACH Regulation (EC) No 1907/2006
- U.S. FDA 21 CFR 177.1520
- Regulation (EU) No 10/2011

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate	ISO 1133 @ 230oC, 2.16 kg	30	g/10 min
Density	ISO 1183	0.910	g/cm ³
Flexural Modulus	ISO 178	850	MPa
Flexural Modulus	ASTM D 790	980	MPa
Tensile Strength at Yield	ISO 527	22	MPa
Elongation at Break	ISO 527	>300	%
Notched Charpy Impact Strength	ISO 179 @ 23°C	11	kJ/m ²
Notched Charpy Impact Strength	ISO 179 @ -20°C	4	kJ/m ²

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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