



# Technical Data Sheet

Product Name  
**SCGC PP**

Product Type

**Polypropylene Copolymer Resin**

Product Grade  
**P140S**

## Product Description

SCGC PP, P140S is a development grade of impact copolymer polypropylene with very low flowability. This grade has excellent impact resistance both room temperature and cold temperature that designed for extrusion profile, automotive parts, and thermoforming packaging. It is suitable for extrusion, blow molding, extrusion blow molding and thermoforming processes.

## Typical Application

- Profiles
- Thermoforming packaging
- Automotive parts

## Product Characteristics

- Superior impact strength
- Balance stiffness
- Dimension stability

## International Compliance

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

## Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate	ASTM D 1238 @ 230°C, 2.16 kg	0.7	g/10 min
Density	ASTM D 1505	0.910	g/cm <sup>3</sup>
Flexural Modulus	ASTM D 790	12,600	kg/cm <sup>2</sup>
Notched Izod Impact	ASTM D 256 @ 23°C	No break	J/m
Notched Izod Impact	ASTM D 256 @ -20°C	50	J/m
Tensile strength at Yield	ASTM D 638 @ speed 50 mm/min	275	kg/cm <sup>2</sup>
Elongation at break	ASTM D 638 @ speed 50 mm/min	>350	%
Heat Deflection Temperature (HDT)	ASTM D 648 @ 4.6 kg/cm <sup>2</sup>	95	°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/cm<sup>2</sup> to MPa is divided by 10.20.

Thai Polyethylene Co., Ltd.





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### Processing Guidelines

The actual processing conditions depend on each machine type, product size, mold design and environment. Recommended processing temperature is around 200-250°C. The heating temperature of thermoforming process depend on machine and line speed. Recommended temperature on sheet before forming should be around 155-160°C.

### 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
- 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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