



# Technical Data Sheet

Product Name	<b>SCGC™ PP: Impact copolymer</b>
Product Grade	<b>P348S</b>

Product Type	<b>Polypropylene</b>
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## Product Description

SCGC™ PP P348S is a special impact copolymer polypropylene base resin which is suitable for sheet and thermoforming products that required high thermal stability and high impact strength at low temperature. It is particularly designed for solid phase pressure forming.

## Typical Application

- Food containers

## Product Characteristics

- Excellent thermal stability and high stiffness
- High impact strength at low temperature
- Microwavable or hot fillable

## International Compliance

- US FDA 21 CFR 177.1520
- Regulation (EU) No.10/2011

**Note:** Direct food contact is subjected to the extraction provisions of the regulation on the finished food contact package.

## Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate at 230 °C and 2.16 kg	ASTM D 1238	2.80	g/10 min
Density	ASTM D 1505	0.963	g/cm <sup>3</sup>
Melting Point	ASTM D 2117	160	°C
Tensile Strength at Yield	ASTM D 638	350	MPa
Elongation at Yield	ASTM D 638	6	%
Flexural Modulus	ASTM D 790	20,500	kg/cm <sup>2</sup>
Notched Izod Impact Strength at 23°C	ASTM D 256	34	J/m
HDT at 4.6 kg/cm <sup>2</sup>	ASTM D 648	130	°C
Haze	ASTM D 1003	23	%
%Shrinkage (2mm) MD	TPE Method	1.25	%
%Shrinkage (2mm) TD	TPE Method	1.25	%

**Note:** • 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 condition depends on each machine type, product dimensions and environment. Sheet melt temperature range is 200-250°C and cooling temperature range is 20-60°C. Thermoforming heating temperature depends on machine and line speed. Recommend temperature on sheet before forming should be around 155-158°C. Drying recommendation for 2-4 hours at 90-120°C.

### 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 Co., Ltd.
- 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.

Thai Polyethylene Co., Ltd.

