



Technical Data Sheet

Product Name	SCGC™ PP: Homopolymer
Product Grade	P304S

Product Type	Polypropylene
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Product Description

SCGC™ PP P304S is a homopolymer polypropylene resin with good process ability and good mechanical properties. It is particularly designed for sheeting and thermoforming products required good stiffness stability, toughness property and clarity.

Typical Application

- Dairy cups
- Disposable drinking cup
- Food containers

Product Characteristics

- Good processability
- Good stiffness
- Good clarity
- Microwavable or hot fillable

International Compliance

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

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate at 230 °C and 2.16 kg	ASTM D 1238	2.1	g/10 min
Density	ASTM D 1505	0.910	g/cm ³
Tensile Strength at Yield	ASTM D 638	330	kg/cm ²
Elongation at Yield	ASTM D 638	10	%
Flexural Modulus	ASTM D 790	13,500	kg/cm ²
Notched Izod Impact Strength at 23°C	ASTM D 256	58	J/m
Heat Deflection Temperature at 4.6 kg/cm ²	ASTM D 648	105	°C
Haze (1 mm)	ASTM D 648	64	%

- Note:**
- The given values are typical value measured on the product. Values herein are not to be constructed as a product specification.
 - Direct food contact is subjected to the extraction provisions of the regulation on the finished food contact package.

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Processing Guidelines

The actual processing condition depends on each machine type, product size and mold design. Generally, Sheet melt temperature should be 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 148-150°C and cooling temperature range is 15-30°C. The exceed forming temperature than 150°C might affect to product property.

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.

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