



Technical Datasheet

Product Name

SCGC™ PP

Product Type

Polypropylene

Product Grade

P303S

Product Description

SCG PP P303S is a homopolymer polypropylene resin which is suitable for sheet and thermoforming products that required high stiffness and high clarity. It is particularly designed for solid phase pressure forming.

Typical Application

- Dairy cups
- Disposable drinking cup
- Food containers

Product Characteristics

- High stiffness
- Microwavable or hot fillable
- High clarity

International Compliance

- U.S. FDA 21 CFR 177.1520
- Commission 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

Property	Test Method	Typical Value	Unit
Melt Flow Rate	ASTM D 1238 @ 230 °C, 2.16 kg	2.3	g/ 10 min
Density	ASTM D 1505	0.91	g/cm ³
Melting Point	ASTM D 2117	160	°C
Tensile Strength at Yield	ASTM D 638	400	kg/cm ²
Elongation at Yield	ASTM D 638	7	%
Flexural Modulus	ASTM D 790	19,000	kg/cm ²
Notched Izod Impact Strength	ASTM D 256 @ 23°C	59	J/m
Heat Deflection Temperature (HDT)	ASTM D 648 @ 4.6 kg/cm ²	128	°C
Haze at 1 mm	ASTM D 1003	23	%
%Shrinkage (2 mm) MD	TPE Method	1.38	%
%Shrinkage (2 mm) TD	TPE Method	1.39	%

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 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.

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 unlabeled containers. Use appropriate containment to avoid environmental contamination.
- The storage area should be stable and not be slopped.

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