



## TECHNICAL DATA SHEET

Product Name

**SCG PP**

Product Type

**Polypropylene Homopolymer for Sheet and Thermoforming**

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 cups
- Food containers for microwave heating

### Product Characteristics

- High stiffness
- High deep-drawn ability
- High clarity
- Microwaveable or hot fillable

### International Compliance

- US 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	2.0	g/10 min
Density	ASTM D 1505	0.910	g/cm <sup>3</sup>
Tensile Strength at Yield	ASTM D 638 @ Crosshead speed 50 mm/min	400	kg/cm <sup>2</sup>
Elongation at Break	ASTM D 638 @ Crosshead speed 50 mm/min	7	%
Flexural Modulus	ASTM D 790	19,000	kg/cm <sup>2</sup>
Notched Izod Impact Strength	ASTM D 256 @ 23°C	59	J/m
Haze at 1 mm	ASTM D 1003	23	%
Heat Deflection Temperature (HDT)	ASTM D 648 @ 4.6 kg/cm <sup>2</sup>	128	°C
% 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.

SCG Performance Chemicals Co., Ltd.





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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
- Seabulk container

### Storage

- Store in original container in tidy according to the manual of Handling and Storage from Thai Polyethylene Company Limited/ Thai Polypropylene 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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