



TECHNICAL DATA SHEET

Product Type

Polypropylene resin for Flat Yarn / Raffia application

Product Name

SCG PP

Product Grade

P400S

Product Description

P400S is a homopolymer polypropylene resin which is specially designed for flat yarn or raffia products and monofilament application as well. P400S offers good features for Flat Yarn application as consistency process ability, high productivity with balance good mechanical properties.

Typical Application

- Woven bags
- Flexible Intermediate Bulk Containers
- Ropes & twines
- Sheet
- Strap
- Straw

Product Characteristics

- Good process ability
- High productivity
- Good mechanical properties
- Food contact applicable

International Compliance

- Food Contact Compliance
- Environmental Legislations
- Regulation (EC) No.1907/2006 (REACH)

Physical Properties

Property	Test Method	Typical Value	Unit
Melt Flow Rate	ASTM D 1238 @ 230 °C, 2.16 kg	3.5	g/10 min
Density	ASTM D 1505	0.910	g/cm ³
Melting Point	ASTM D 2117	163	°C
Vicat Softening Point	ASTM D 1525	155	°C
Heat Deflection Temperature (HDT)	ASTM D 648 @ 4.6 kg/cm ²	110	°C
Tensile Strength at Yield	ASTM D 638	320	kg/cm ²
Tensile Strength at Break	ASTM D 638	250	kg/cm ²
Elongation at Break	ASTM D 638	650	%
Flexural Modulus	ASTM D 790	13500	kg/cm ²
Notched Izod Impact	ASTM D 256 @ 23 °C	40	J/m
Haze	ASTM D 1003	50	%
Gloss	ASTM D 2457	65	%

Note:

- Conversion factor for changing unit from kg/cm² to MPa is divided by 10.20
- There results above are under SCG's condition and method from specific sample, should be not used for representative to lot product qualities

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Processing Guidelines

Recommended processing conditions:

Monofilament: Processing temperature around 250 – 280 °C, Stretching Temperature 96 – 100 °C, Stretching Ratio 8 - 12

Flat yarn: Processing temperature around 190 – 260 °C, Stretching Temperature 100 – 130 °C, Stretching Ratio 5 - 7

However, these conditions are only guideline for actual processing conditions should be adjusted case by case because it depends on machine type, screw configuration, product design and environment.

Product Technical Assistance

For technical assistance or further information on this product or any other SCG Chemicals' products contact your SCG Chemicals technical service engineer 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

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 slopped.

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