



TECHNICAL DATA SHEET

Product Name

SCG PP

Product Type

Polypropylene Homopolymer for Injection

Product Grade

P705JM

Product Description

SCG PP P705JM is homopolymer polypropylene resin that is well-suited to healthcare and pharmaceutical products. P705JM has good processability, high stiffness and is compliant to FDA, USP, and EP requirements. P705JM can be injection molded and sterilized by ethylene oxide.

Typical Application

- Syringe plunger
- Specimen cup
- Applications required high stiffness
- Blister packs for contact lens

Product Characteristics

- Easy processing
- High stiffness
- Good physical properties
- Odorless

International Compliance

- Food contact applicable (Complies with U.S. FDA 21 CFR 177.1520)
- Complies with USP class VI
- Complies with EP 3.1.6
- DMF no. 30046

Notice : It is strongly recommended that all potential activities for applications related to pharmaceutical, medical device, laboratory and diagnostics area have to be discussed with SCG Performance Chemicals' technical services department first. It is responsibility of customers to determine that the product is safe, lawful and technically suitable for the intended use. SCG Performance Chemicals makes no warranties concerning the suitability of SCG Performance Chemicals' product for using in any given medical application.

Physical Properties

Property	Test Method	Typical Value	Unit
Melt Flow Rate	ASTM D 1238 @ 230 °C, 2.16 kg	12	g/10 min
Density	ASTM D 1505	0.910	g/cm ³
Tensile Strength at Yield	ASTM D 638 @ Crosshead speed 50 mm/min	320	kg/cm ²
Elongation at Break	ASTM D 638 @ Crosshead speed 50 mm/min	650	%
Flexural Modulus	ASTM D 790	14,500	kg/cm ²
Notched Izod Impact Strength	ASTM D 256 @ 23 °C	29	J/m
Rockwell Hardness	ASTM D 785	90	R-Scale
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
% Shrinkage (2 mm.) MD	TPE Method	1.4	%
TD	TPE Method	1.5	%

(% Shrinkage depending on wall thickness and molding parameter)

SCG Performance Chemicals Co., Ltd.





TECHNICAL DATA SHEET

Product Name

SCG PP

Product Type

Polypropylene Homopolymer for Injection

Product Grade

P705JM

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

Processing Guidelines

The actual processing condition depends on each machine type, product size and mold design. Generally, melt temperature should be 210-250 °C for injection molding, Mold temperature: 20-50 °C and the exceed melt temperature than 250 °C might affect organoleptic property.

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

- Natural pellet

Product Packaging

- 25 kg loose bag
- 25 kg stretch wrap palletized

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 odor generation and color 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.

SCG Performance Chemicals Co., Ltd.

