



TECHNICAL DATA SHEET

Product Name

SCG PP

Product Type

Polypropylene Random Copolymer for ISBM

Product Grade

P655IM

Product Description

SCG PP P655IM is the polypropylene random copolymer resin that is well-suited to healthcare and pharmaceutical products with good clarity. P655IM is designed for product produced by Injection Stretch Blow Molding (ISBM) process. P655IM is compliant to FDA, USP, and EP requirements.

Typical Application

- Saline solution bottle
- Medical devices
- Laboratory wares
- Applications produced by ISBM process

Product Characteristics

- Suitable for autoclave sterilization
- Easy processing
- Good transparency
- Good impact resistance

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. 25971

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	7	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	9000	kg/cm ²
Notched Izod Impact Strength	ASTM D 256 @ 23 °C	69	J/m
Melting Point	ASTM D 2117	145	°C
Heat Deflection Temperature (HDT)	ASTM D 648 @ 4.6 kg/cm ²	90	°C

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 condition depends on each machine type, product size and mold design. Generally, melt temperature should be 200-230 °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.

Safety

- The product is not classified as a hazardous material.
- Please see our Material Safety Data Sheet for details on various aspects of safety, recovery, and disposal of the products; for more information, contact your SCG Performance Chemicals technical service.



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Related Documents

- The latest version of this document will be available at our website, www.scgchemicals.com, or can be obtained from the SCG Performance Chemicals technical service.
- The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.
 - Safety Data Sheet (SDS)
 - Statement on compliance to food contact regulations
 - Statement on compliance with USP Class VI requirements
 - Statement on compliance with EP 3.1.6 requirements

Disclaimer

- The Applications specified herein is for reference only.
- It is customer's responsibilities to inspect and test the product for suitability of the customer's own use and purpose. The customer is responsible for appropriate, safe, legal use, processing and handling of the product.
- To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication. We however do not assume any liability whatsoever for the accuracy and completeness of the information contained herein.
- We make no warranties which extend beyond the description herein. Nothing herein shall constitute any implied warranty of merchantability or fitness for a particular purpose.
- No liability can be accepted in respect of the use of the product in conjunction with other materials. The information contained herein relates exclusively to the product when it is not used in conjunction with any third party's materials.