



Provisional Technical Data Sheet

Product Name



Product Type

Circular Polypropylene

Product Grade

AP951J

Product Description

SCGC GREEN POLYMER™ Circular Polypropylene AP951J is contained 100% recycling content derived from advanced recycling technology that turn post-consumer plastics into recycled feedstock for virgin like plastic production. AP951J is random copolymer polypropylene with high clarity, high productivity and contain antistatic agent designed for general purpose products produced from injection molding process.

Typical Application

- Clear food containers
- Clear household product
- Articles required high transparency
- Syringe

Product Characteristics

- High clarity
- High flowability
- Food contact application

International Compliance

- U.S. FDA 21 CFR 177.1520
- Regulation (EU) No.10/2011
- RoHS directive 2011/65/EU
- REACH regulation (EC) 19-7/2006
- Complied USP class VI
- ISCC Plus Certification

Notice: It is customer's own responsibility to determine whether the product is safe, lawful and technically suitable for your intended use/purpose. The Company makes no warranties or guarantees to any use of the product in any application. It is strongly recommended to discuss with the Company's technical service team if you may have any concern regarding activities for producing and/or manufacturing of the product in any applications related to pharmaceutical, medical device, laboratory and diagnostics area.

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate	ASTM D 1238 @ 230 °C, 2.16 kg	28	g/ 10 min
Density	ASTM D 1505	0.910	g/cm ³
Melting point	ASTM D 2117	150	°C
Heat deflection temperature (HDT)	ASTM D 648 @4.6 kg/cm ²	90	°C
Tensile Strength at Yield	ASTM D 638 @ Speed 50 mm/min	300	kg/cm ²
Tensile Strength at break	ASTM D 638 @ Speed 50 mm/min	190	kg/cm ²
Flexural Modulus	ASTM D 790	12,000	kg/cm ²
Notched Izod Impact	ASTM D 256 @ 23 °C	50	J/m
Rockwell Hardness	ASTM D 785	75	R-Scale
Haze 1 mm	TPE Method	<20	%

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.



Provisional Technical Data Sheet

Product Name



Product Type

Circular Polypropylene

Product Grade

AP951J

Processing Guidelines

The actual processing conditions depend on each machine type, product size, mold design and environment.

Recommended processing conditions:

Melt temperature: 210-270 °C

Mold temperature: 20-50 °C

Injection speed: Fast

Screw speed: 40-70 rpm

Pressure: Injection: 40-80 %

Packing and Holding: 30-60%

Back: 10% of Max Pressure

Product Technical Assistance

For technical assistance or further information on this product or any other SCG Chemicals' products, contact your SCG Chemicals technical services at the address 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.

Safety

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



Provisional Technical Data Sheet

Product Name



Product Type

Circular Polypropylene

Product Grade

AP951J

Recycling

- The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.
- Please see our Safety Datasheet for details on various aspects of safety, recovery and disposal of the products; for more information, contact your SCG Chemicals technical services.

Related Documents

- The latest version of this document will be available at our website, www.scgchemicals.com, or can be obtained from the SCG Chemicals technical services.
- 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.
 - Declaration of Compliance.

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