



# Provisional Technical Data Sheet

Product Name



Product Type

**Circular Polypropylene**

Product Grade

**AP740J**

## Product Description

SCGC GREEN POLYMER™ Circular Polypropylene AP740J is contained 100% recycling content derived from advanced recycling technology that turn post-consumer plastics into recycled feedstock for virgin like plastic production. AP740J is a medium flow polypropylene impact copolymer resin. It is designed for injection molding process. This resin is recommended for product that that requires good stiffness and impact balance.

## Typical Application

- Automotive parts
- Electrical appliance parts
- Complicated industrial parts
- Any parts require good flow ability

## Product Characteristics

- Good impact strength
- Good stiffness
- Good process ability
- Food contact applicable

## International Compliance

- U.S. FDA 21 CFR 177.1520
- Regulation (EU) No.10/2011
- Directive 94/62/EC
- RoHS Directive 2011/65/EU (RoHS 2)
- REACH Regulation (EC) No. 1907/2006
- ISCC Plus Certification

## Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate	ASTM D 1238 @ 230 °C, 2.16 kg	27	g/ 10 min
Density	ASTM D 1505	0.91	g/cm <sup>3</sup>
Melting Point	ASTM D 2117	163	°C
Vicat Softening Point	ASTM D 1525	150	°C
Heat Deflection Temperature (HDT)	ASTM D 648 @ 4.6 kg/cm <sup>2</sup>	110	°C
Tensile Strength at Yield	ASTM D 638 @ Speed 50 mm/min	290	kg/cm <sup>2</sup>
Tensile Strength at Break	ASTM D 638 @ Speed 50 mm/min	200	kg/cm <sup>2</sup>
Flexural Modulus	ASTM D 790	12,500	kg/cm <sup>2</sup>
Notched Izod Impact	ASTM D 256 @ 23 °C	78	J/m
Notched Izod Impact	ASTM D 256 @ 0 °C	49	J/m
Notched Izod Impact	ASTM D 256 @ -20 °C	39	J/m
Rockwell Hardness	ASTM D 785	70	R-Scale
% Shrinkage (2mmt) MD	TPE Method	1.4	%
TD	TPE Method	1.2	%
Flammability	UL-94	HB	-

**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/cm<sup>2</sup> to MPa is divided by 10.20.



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## Processing Guidelines

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

Recommended processing conditions:

Melt temperature: 210-250 °C

Mold temperature: 25-70 °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
- Sea bulk container

## 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 sloped.

## 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.



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## 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](http://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.
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