



Technical Data Sheet

Product Name



Product Type

PCR PP for injection molding (black color)

Product Grade

PCRPO3JB

Product Description

SCGC GREEN POLYMER™ PCRPO3JB is a certified Post-Consumer Recycled Resin impact copolymer polypropylene. This grade is suitable for injection molding application. This product is not intended for food contact, pharmaceutical or medical applications.



Typical Application

- Injection molding for general purpose application
- Automotive parts
- Electrical appliance parts
- Industrial uses
- Furniture
- Toy

Product Characteristics

- Black color
- High Impact Strength
- Good stiffness
- Good process ability

International Compliance

- Global Recycled Standard (GRS)

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate	ASTM D 1238 @ 230 °C, 2.16 kg	12	g/ 10 min
Density	ASTM D 792	0.910	g/cm ³
Tensile Strength at Break	ASTM D 638	24	MPa
Elongation at Break	ASTM D 638	50	%
Flexural Modulus	ASTM D 790	1,000	MPa
Notched Izod Impact	ASTM D 256 @ 23 °C	115	J/m
Heat Deflection Temperature (HDT)	ASTM D 648 @ 4.6 kg/cm ²	100	°C

- Note:**
- The given values are typical value measured on the product. Values herein are not to be constructed as a product specification
 - Note on specimen dimension size (Width x Length x Thickness) of 100% PCR as below;
 - Tensile Strength at Break & Elongation at Break 6 x 115 x 2 mm
 - Flexural Modulus 12.7 x 127 x 3 mm
 - Notched Izod Impact 12.7 x 64 x 3 mm
 - ESCR (100% PCR) 13 x 38 x 1.8 mm
 - Convert ASTM to ISO unit using 10,20 as conversion factor



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Processing Guidelines

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

The recommended processing conditions are:

- Melt temperature: 200-230 °C
- Mold temperature: 25-70 °C
- Injection speed: Max
- Screw speed: 40-70 rpm
- Pressure (of Max. Pressure): Injection 40-80%
- Packing and Holding 30-60%
- Back pressure 10%

Product Technical Assistance

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

Product Available Form

- Pellet

Product Packaging

- 25 kg loose bag
- 25 kg stretch wrap palletized
(40 bags/wooden pallet)

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 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 contact.



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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 contact.

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 contact.
- 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