Product Description

SCG PP P639AT is a very high flow rate impact copolymer polypropylene resin. It is designed for compounding and injection molding process. This resin is suggested for compounds that require low flow mark after injection process. It is suitable for various automotive parts.

Typical Application

• Automotive exterior/interior parts
• Compounding

Product Characteristics

• Very high flowability
• Stiffness and impact balance

International

• Directive 2002/95/EC (RoHS1)
• Directive (EU) 2015/863 amending annex II to Directive 2011/65/EU (RoHS2)
• Directive 2000/53/EC on ELV
• REACH Regulation (EC) No 1907/2006

Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
<th>Typical Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melt Flow Rate</td>
<td>ISO 1133 @ 230°C, 2.16 kg</td>
<td>80</td>
<td>g/10 min</td>
</tr>
<tr>
<td>Density</td>
<td>ISO 1183</td>
<td>0.910</td>
<td>g/cm³</td>
</tr>
<tr>
<td>Tensile Modulus</td>
<td>ISO 527</td>
<td>1,350</td>
<td>MPa</td>
</tr>
<tr>
<td>Tensile Strength at Yield</td>
<td>ISO 527</td>
<td>28</td>
<td>MPa</td>
</tr>
<tr>
<td>Charpy Impact Strength</td>
<td>ISO 179 @ 23°C</td>
<td>6.0</td>
<td>kJ/m²</td>
</tr>
<tr>
<td>Rockwell Hardness</td>
<td>ISO 2039-2</td>
<td>95</td>
<td>°C</td>
</tr>
<tr>
<td>Heat Deflection Temperature</td>
<td>ISO 75 @ 0.45 MPa</td>
<td>90</td>
<td>°C</td>
</tr>
</tbody>
</table>

Note: the given values are typical value measured on the product. Values herein are not to be construed as a product specification.
Processing

The actual processing condition depends on each machine type, product size, and mold design. Generally, melt temperature should be 230-270°C for injection molding. The exceed melt temperature than 300°C might effect on color or appearance of product.

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.

<table>
<thead>
<tr>
<th>Product Available Form</th>
<th>Product Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Pellet</td>
<td>• 25 kg loose bag</td>
</tr>
<tr>
<td></td>
<td>• 25 kg stretch wrap palletized</td>
</tr>
<tr>
<td></td>
<td>• 750 kg big bag</td>
</tr>
<tr>
<td></td>
<td>• Seabulk container</td>
</tr>
<tr>
<td></td>
<td>• 750 kg big bag</td>
</tr>
</tbody>
</table>

Storage

• Store in original container in tidy according to the manual of Handling and Storage from Thai Polyethylene Company Limited/ Thai Polypropylene 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 Material Safety Data Sheet for details on various aspects of safety, recovery, and disposal of the products; for more information, contact your SCG Plastics/SCG Performance Chemicals technical service.
TECHNICAL DATA SHEET

Product Name
SCG PP

Product Type
Polypropylene Impact Copolymer

Product Grade
P639AT

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 Material Safety Datasheet for details on various aspects of safety, recovery and disposal of the products; for more information, contact your SCG Plastics/SCG Performance Chemicals technical service.

Related

• The latest version of this document will be available at our website, www.scgchemicals.com, or can be obtained from the SCG Plastics/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.
  o Material Safety Datasheet
  o Statement on compliance to food contact regulations

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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