Technical Data Sheet

Product Name
SCGC PP

Product Type
Polypropylene Copolymer Resin

Product Grade
P341S

Product Description

SCGC PP P341S is an impact copolymer polypropylene with low flowability. It exhibits excellent impact resistance and maintain stiffness designed for automotive parts, general purpose products and thermoforming packaging. It is suitable for extrusion and thermoforming.

Typical Application

- Corrugated extruded board
- Thermoforming packaging
- Automotive parts

Product Characteristics

- Superior impact strength
- Balance stiffness
- Good dimension stability

International Compliance

- RoHS Directive 2011/65/EU
- REACH Regulation (EC) No. 1907/2006
- U.S. FDA 21 CFR 177.1520

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate	ASTM D 1238 @ 230°C, 2.16 kg	1.8	g/10 min
Density	ASTM D 1505	0.910	g/cm^3
Flexural Modulus	ASTM D 790	12,000	kg/cm^2
Notched Izod Impact	ASTM D 256 @ 23°C	No break	J/m
Notched Izod Impact	ASTM D 256 @ 0°C	100	J/m
Notched Izod Impact	ASTM D 256 @ -20°C	70	J/m
Tensile strength at Yield	ASTM D 638 @ speed 50 mm/min	250	kg/cm^2
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 construed as a product specification.
- Conversion factor for changing unit from kg/cm^2 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 temperature is around 200-250°C. The heating temperature of thermoforming process depend on machine and line speed. Recommended temperature on sheet before forming should be around 155-160°C.

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

- 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 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 Chemicals technical service.

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 Chemicals technical service.

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 service.
- The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.
    - Material Safety Data Sheet
    - Statement on compliance to food contact regulation.

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