# Technical Datasheet

Product Name
**SCGC™ PP**

Product Type
**Polypropylene**

Product Grade
**P350F**

## Product Description

SCGC PP P350F is a polypropylene copolymer without slip and anti-blocking designed suitable for cast film process with good seal properties, excellent clarity and good stress whitening resistance.

## Typical Application

- CPP retort film and general CPP film
- Food and non-food packaging

## Product Characteristics

- Excellent seal properties
- Excellent clarity
- Good stress-whitening resistance

## International Compliance

- U.S FDA 21 CFR 177.1520
- Regulation (EU) No.10/2011
- Regulation (EC) No.1907/2006 (REACH)
- Directive 2011/65/EU (RoHS)

**Note:** Direct food contact is subjected to the extraction provisions of the regulation on the finished food contact package.

## Physical Properties

| Property | Test Method | Typical Value | Unit |
|---|---|---|---|
| **Resin Properties** | | | |
| Melt Flow Rate | ASTM D 1238 @ 230°C, 2.16 kg | 3.2 | g/10 min |
| Density | ASTM D 1505 | 0.900 | $g/cm^3$ |
| Melting Point | ASTM D 2117 | 161 | °C |
| Vicat Softening Point | ASTM D 1525 | 140 | °C |
| Flexural modulus | ASTM D 790 | 900 | MPa |
| **Film Properties** | | | |
| Tensile Strength at Yield | ASTM D 882 | MD: 20*, TD: 20* | MPa |
| Tensile Strength at Break | ASTM D 882 | MD: 39*, TD: 25* | MPa |
| Tensile Modulus, 2% Secant | ASTM D 882 | MD: 406*, TD: 370* | MPa |
| Elongation at Break | ASTM D 882 | MD: 804*, TD: 656* | % |
| Haze | ASTM D 1003 | 13 | % |
| Seal Strength (Before retort) | TPE Method | >2 | kgf/15mm |
| Seal Strength (After retort) | TPE Method | >2 | kgf/15mm |

**Note:** - The given values are typical value measured on the product. Values herein are not to be constructed as a product specification.
- (*) Properties obtained from experiment on a pilot line, Film thickness 70 micron, MD = Machine Direction, TD = Transverse Direction.

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Published: March 2023



Manufacturer website: https://www.scgchemicals.com/en

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## Processing Guidelines

The actual extrusion condition depends on type of using machine, size and film thickness of product required. Generally, melt temperature should be 200-230°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 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 unlabeled 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.

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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 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.

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