TECHNICAL DATA SHEET

# HYOSUNG Polypropylene
The Next Circular Economy

# J351F

## Block Copolymer
For Retort Film

## Product Description

**HYOSUNG Polypropylene J351F** is specially designed polypropylene block copolymer that features high impact resistance and very low TVOC. It is suitable for seal, core and/or skin layer of retort packaging.

## Application

Retort CPP film
(Seal, core or skin layer)

## Features

Very low TVOC
Low fisheye
Low Haze (<10 @40$\mu$m)

## Properties

| Properties | Test Method | Typical Value | Unit |
|---|---|---|---|
| **Resin Properties** | | | |
| Melt Index(230℃, 2.16kg) | ASTM D1238 | 2.5 | g/10min |
| Density | ASTM D792 | 0.90 | g/cm$^3$ |
| **Mechanical Properties** | | | |
| Tensile Strength at Yield | ASTM D638 | 300 | kg/cm$^2$ |
| Flexural Modulus | ASTM D790 | 11,500 | kg/cm$^2$ |
| Izod Impact Strength, Notched at 23℃ | ASTM D256 | 18 | kg·cm/cm |
| Rockwell Hardness | ASTM D785 | 80 | R-Scale |
| Heat Deflection Temperature (0.45MPa) | ASTM D648 | 110 | ℃ |
| VICAT Softening Temperature (10N) | ASTM D1525 | 150 | ℃ |

* The values listed above are typical values for reference purpose only and shall not be construed as specifications.

## Storage and Handling

This product should be stored in dry condition at temperature below 40˚C and protected from UV-light. When condensation is visible or can be expected, pre-drying is recommended. (Drying condition: 80~100℃ / 2~4hours at air circulated condition)

## Disclaimer

All information, including product characteristics, applications and properties are for reference purpose only and shall not be construed as specifications. Before using this product, customers should carefully review the instructions for use of the product to determine whether the product is suitable for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of this product. HYOSUNG CHEMICAL CORPORATION assumes no legal responsibility or liability for the contents of this document. We reserve the right to change the contents of this document without prior notice. This document is copyrighted by HYOSUNG CHEMICAL CORPORATION.

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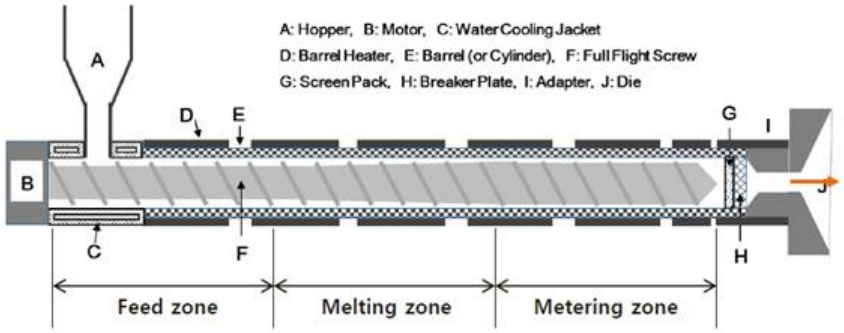
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## Processing Parameters




| Specifications | Unit | Recommended Parameters |
|---|---|---|
| Feed Zone Temperature | ℃ | 170 ~ 190 |
| Melting Zone Temperature | ℃ | 190 ~ 225 |
| Metering Zone Temperature | ℃ | 200 ~ 250 |
| Die or Nozzle Temperature | ℃ | 200 ~ 250 |
| Screw Speed | rpm | 20 ~ 30 |

**Considerations**
Due to variations in screw design and heat efficiency according to types of facilities, optimal conditions for each facility may differ. Therefore, the optimal temperature conditions for each facility must be taken into consideration depending on thickness of final products, extruding pressure, cooling efficiency, changes in MI of the final product, appearances of the final product, and others.

## Health, Safety and Food Contact Regulations

**PP J351F** complies with FDA requirements in the code of Federal Regulations in 21 CFR 177. 1520 for food contact and European Commission Regulation (EU) No 10/2011 and its amendments up to (EU) No 2023/1627 with regard to plastic materials and articles intended to come into contact with food.

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