TECHNICAL DATA SHEET

HYOSUNG Polypropylene
The Next Circular Economy

HJ541CP

Block Copolymer
For Small Home Electronics

Product Description

HYOSUNG Polypropylene HJ541CP is specially designed polypropylene block copolymer that features excellent stiffness-impact resistance balance. **PP HJ541CP** is suitable for caps and closure for bottles. This product contains slip and anti-static agent.

Application

Caps and closures for bottles
(Both injection molding and CCM)

Features

Excellent stiffness-impact balance
Slip and anti-static agent

Properties

Properties	Test Method	Typical Value	Unit
Resin Properties			
Melt Index(230℃, 2.16kg)	ASTM D1238	6.5	g/10min
Density	ASTM D792	0.90	g/cm^3
Mechanical Properties			
Tensile Strength at Yield	ASTM D638	270	kg/cm^2
Flexural Modulus	ASTM D790	15,000	kg/cm^2
Izod Impact Strength, Notched at 23℃	ASTM D256	11	kg·cm/cm
Rockwell Hardness	ASTM D785	90	R-Scale
Heat Deflection Temperature (0.45MPa)	ASTM D648	125	℃

* 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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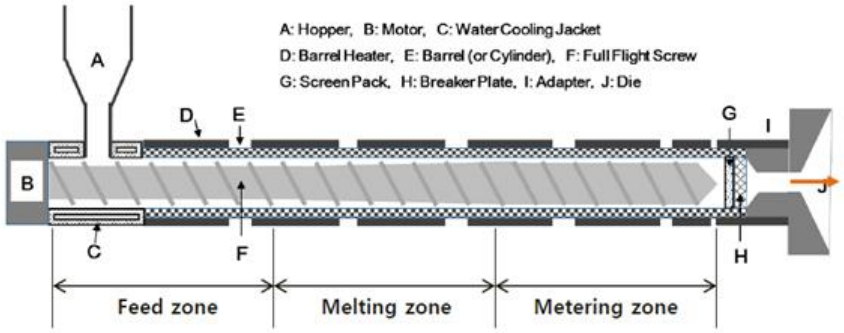
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Processing Parameters



Specifications	Unit	Recommended Parameters
Feed Zone Temperature	℃	170 ~ 190
Melting Zone Temperature	℃	180 ~ 230
Metering Zone Temperature	℃	200 ~ 250
Die or Nozzle Temperature	℃	200 ~ 250
Mold Temperature	℃	30 ~ 50
Injection Pressure	Bar	600 ~ 1300

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, injection pressure, cooling efficiency, changes in MI of the final product, appearances of the final product, and others.

Health, Safety and Food Contact Regulations

PP HJ541CP 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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