TECHNICAL DATA SHEET

HYOSUNG Polypropylene J440

The Next Circular Economy

Block Copolymer
For Injection Molding

Product Description

HYOSUNG Polypropylene J440 is polypropylene block copolymer designed for injection molding parts. It can be applied on industrial articles (container, crate and pellet), electronic housings, battery cases, stationaries, housewares, toys and others.

Application

Industrial articles and electronic housings
Battery case
Stationaries, housewares and others

Features

Good stiffness-impact balance
UL 94HB

Properties

Properties	Test Method	Typical Value	Unit
Resin Properties			
Melt Index(230℃, 2.16kg)	ASTM D1238	4.0	g/10min
Density	ASTM D792	0.90	g/cm^3
Mechanical Properties			
Tensile Strength at Yield	ASTM D638	260	kg/cm^2
Flexural Modulus	ASTM D790	12,500	kg/cm^2
Izod Impact Strength, Notched at 23℃	ASTM D256	13	kg·cm/cm
Rockwell Hardness	ASTM D785	85	R-Scale
Heat Deflection Temperature (0.45MPa)	ASTM D648	105	℃
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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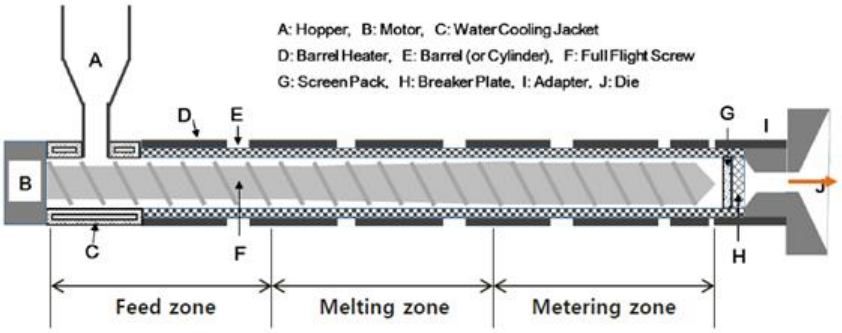
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Processing Parameters



Specifications	Unit	Recommended Parameters
Feed Zone Temperature	℃	170 ~ 190
Melting Zone Temperature	℃	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 J440 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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