TECHNICAL DATA SHEET

HYOSUNG Polypropylene
The Next Circular Economy

R200P-G40N

Random Copolymer
For Water Supplying Pipes

Product Description

HYOSUNG Polypropylene R200P-G40N is glass fiber reinforced (40%, natural colored) polypropylene random copolymer that features excellent coefficient of linear thermal expansion and stiffness. It is suitable for middle layer of hot water supplying pipes to improve stiffness and prevent pipes from expansion.

Application

Middle layer of hot water supplying pipes

Features

Glass fiber reinforced PP-R
Excellent coefficient of thermal expansion(CTE)
High stiffness

Properties

Properties	Test Method	Typical Value	Unit
Resin Properties			
Melt Index(230℃, 2.16kg)	ASTM D1238	0.25	g/10min
Density	ASTM D792	1.21	g/cm^3
Mechanical Properties			
Tensile Strength at Yield	ASTM D638	760	kg/cm^2
Flexural Modulus	ASTM D790	50,000	kg/cm^2
Izod Impact Strength, Notched at 23℃	ASTM D256	20	kg·cm/cm
Rockwell Hardness	ASTM D785	85	R-Scale
Heat Deflection Temperature (0.45MPa)	ASTM D648	135	℃

* 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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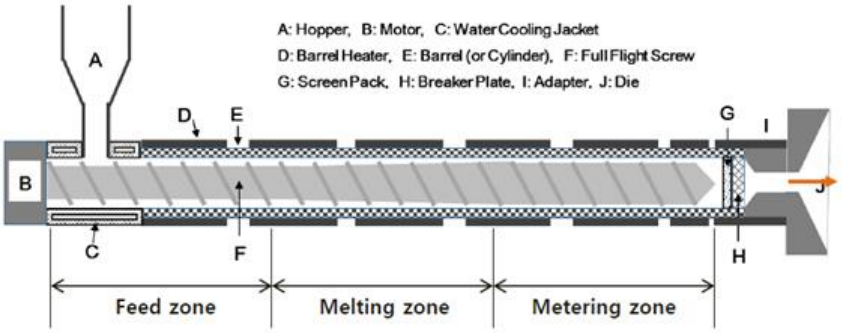
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Processing Parameters



Specifications	Unit	Recommended Parameters
Feed Zone Temperature	℃	160 ~ 180
Melting Zone Temperature	℃	180 ~ 210
Metering Zone Temperature	℃	180 ~ 220
Die Temperature	℃	180 ~ 220
Screw Speed	rpm	40 ~ 70
Cooling Bath Temperature	℃	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 SDR of pipes, extruding pressure, cooling efficiency, changes in MI of the final product, appearances of the final product, and others.

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