TECHNICAL DATA SHEET

HYOSUNG Polypropylene
The Next Circular Economy

R200P

Random Copolymer
For Water Supplying Pipes

Product Description

HYOSUNG Polypropylene R200P is polypropylene random copolymer that features excellent long-term hydrostatic pressure resistance and heat stability. It is suitable for hot and cold water supply pipes and fitting as well as radiator connecting pipes.

Application

Hot and cold water supplying pipes
Radiator connecting pipes

Features

Long-term hydrostatic pressure resistance
(PPR 125, MRS 12.5MPa, CRS 3.3MPa)
Enhanced processability

Properties

Properties	Test Method	Typical Value	Unit
Resin Properties			
Melt Index(230℃, 2.16kg)	ASTM D1238	0.25	g/10min
Density	ASTM D792	0.90	g/cm^3
Mechanical Properties			
Tensile Strength at Yield	ASTM D638	290	kg/cm^2
Flexural Modulus	ASTM D790	9,500	kg/cm^2
Izod Impact Strength, Notched at 23℃	ASTM D256	N.B	kg·cm/cm
Izod Impact Strength, Notched at -10℃	ASTM D256	7.5	kg·cm/cm
Rockwell Hardness	ASTM D785	75	R-Scale
Heat Deflection Temperature (0.45MPa)	ASTM D648	85	℃
VICAT Softening Temperature (10N)	ASTM D1525	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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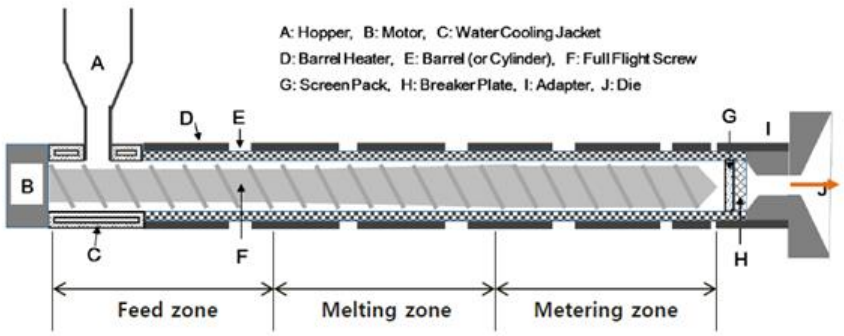
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Processing Parameters



Specifications	Unit	Recommended Parameters
Feed Zone Temperature	℃	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.

Compliance

Pipes produced with **PP R200P** comply with the hydrostatic pressure requirements according to DIN 8078, ISO/DIS 15874 2, GB/T 18742 and KS M 3362. This product corresponds to the DVGW W270/KTW-BWGL guidelines, WRAS BS6920 and GB/T17219 for drinking water system
It complies with the requirements of NSF/ANSI 14, FDA 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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