TECHNICAL DATA SHEET

HYOSUNG VINA CHEMICALS

HYOSUNG Polypropylene
The Next Circular Economy

HJ9280N

HCPP Polypropylene Block Copolymer
For Automotive / PP compound

Product Description

Hyosung Polypropylene HJ9280N is a specially designed high crystallinity polypropylene block copolymer (HCPP) with high isotacticity that features high stiffness, excellent flowability and heat resistance. It is suitable for automotive parts such as a door trim, pillar and PP compound.

Characteristics

Typical Application Automotive parts (Door trim, Pillar) / Industrial articles / PP compound base resin

Features High stiffness / Excellent flowability & Processability / Heat resistance / Phthalate-free / Non peroxide cracking

Typical Properties

Characteristics		Method	Value	Unit
Physical				
Melt Index (230℃, 2.16kg)		ASTM D1238	**110.0**	g/10min
Density		ASTM D792	**0.90**	g/㎤
Mechanical				
Tensile Strength at Yield		ASTM D638	**320**	kg/㎠
Flexural Modulus		ASTM D790	**19,000**	kg/㎠
Notched Izod Impact Strength	23℃	ASTM D256	**5.5**	kg·cm/cm
	-10℃		**2.5**	
Rockwell Hardness		ASTM D785	**105**	R-scale
Thermal				
Vicat Softening point (1kgf)		ASTM D1525	**155**	℃
Heat Deflection Temperature (4.6kgf/㎠)		ASTM D648	**135**	℃

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

Contacts

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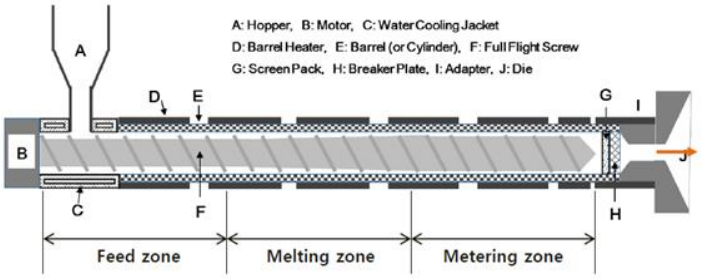
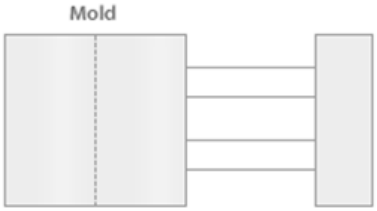
Processing Conditions





Specifications	Unit	Recommended Conditions
Nozzle Temperature	℃	210 ~ 230
Front Temperature	℃	210 ~ 230
Middle Temperature	℃	210 ~ 230
Rear Temperature	℃	190 ~ 210
Mold Temperature	℃	20 ~ 50
Back Pressure	MPa	0.3 ~ 0.7
Screw Speed	rpm	40 ~ 70

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 extruding pressure, cooling efficiency, changes in MI of the final product, appearances of the final product, etc.

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Health, Safety and Food Contact Regulations

Hyosung Polypropylene HJ9280N complies with FDA requirements in the code of Federal Regulations in 21 CFR 177. 1520 for food contact.

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

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