TECHNICAL DATA SHEET

HYOSUNG VINA CHEMICALS

HYOSUNG Polypropylene

The Next Circular Economy

R901TN

Polypropylene Random Copolymer
For High Clarity Injection Molding

Product Description

HYOSUNG Polypropylene R901TN is a nucleated polypropylene random copolymer that features excellent transparency and high flowability. This grade is designed to be processed in injection molding equipment like food containers, medical syringes and housewares. It exhibits high transparency, good stiffness/impact strength balance, high gloss and low TVOC (Total Volatile Organic Compounds).

Characteristics

Typical Application	Food containers / Transparent containers / Housewares / Stationary
Features	High transparency / Excellent flowability & Processability / Phthalate-Free / Bisphenol Free / Non Peroxide Cracking / Excellent stiffness and impact strength balance

Typical Properties

Characteristics		Method	Value	Unit
Physical				
Melt Index (230℃, 2.16kg)		ASTM D1238	**45.0**	g/10min
Density		ASTM D792	**0.90**	g/㎤
Mechanical				
Tensile Strength at Yield		ASTM D638	**300**	kg/㎠
Flexural Modulus		ASTM D790	**11,000**	kg/㎠
Notched Izod Impact Strength (23℃)		ASTM D256	**5.0**	kg·cm/cm
Rockwell Hardness		ASTM D785	**80**	R-scale
Thermal				
Vicat Softening point (1kgf)		ASTM D1525	**130**	℃
Heat Deflection Temperature (4.6kgf/㎠)		ASTM D648	**90**	℃
Additional Properties				
Haze	1mm – Injection molded disc	ASTM D1003	**13**	%
	2mm – Injection molded disc		**24**	%

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

Contacts

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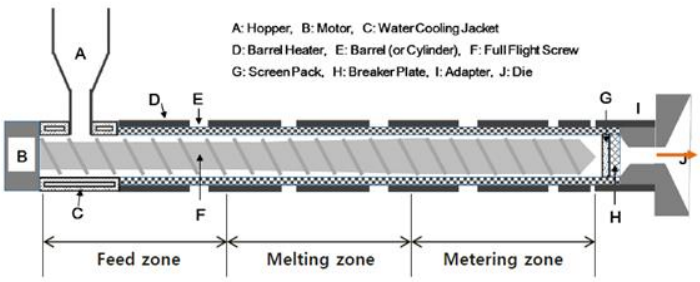
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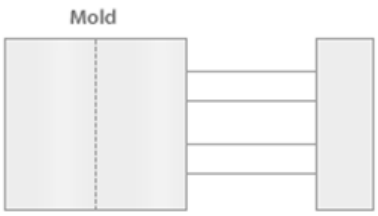
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Processing Conditions





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 R901TN 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 amendment (EU) No 2016 / 1416 with regard to plastic materials and articles intended to come into contact with food.

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 VINA CHEMICALS 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 VINA CHEMICALS CORPORATION.

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