HYOSUNG VINA CHEMICALS

TECHNICAL DATA SHEET

Topilene® J842N

Polypropylene Block Copolymer
For Injection Molding Applications

Product Description

***Topilene*® J842N** is a specially designed polypropylene block copolymer that features good flowability and excellent mechanical properties. It is suitable for injection molding applications. ***Topilene*® J842N** complies with FDA requirements in the code of Federal Regulations in 21 CFR 177.1520 for food contact.

Characteristics

Typical Application	Industrial articles(Big size containers, Thin wall containers, etc), Electric appliances(Washing machine, etc), Stationery, Housewares, General goods, Base resin for PP compound
Features	Good flowability / Excellent stiffness / High impact strength / Short cycle time / Anti-static

Typical Properties

Characteristics	Method	Value	Unit
Physical			
Melt Index(230℃, 2.16kg)	ISO 1133-1	**45.0**	g/10min
Density	ISO 1183-1	**0.90**	g/㎤
Mechanical			
Tensile Strength at Yield	ISO 527-1,-2	**27.0**	MPa
Flexural Modulus	ISO 178	**1,350**	MPa
Charpy Impact Strength - Notched(23℃)	ISO 179	**4.5**	KJ/㎡
Thermal			
Vicat Softening point (1kgf)	ISO 306	**152**	℃
Heat Deflection Temperature (4.6kgf/㎠)	ISO 75B-1,-2	**99**	℃

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

Contacts

Head Office Lot 01CN ~ 08CN, Cai Mep Industrial Park,
Tan Phuoc Ward, Phu My Town, Ba Ria Vung Tau
Province, Vietnam.
Tel: +84-254-393-7949 Fax: +84-254-393-7849

Online www.hyosungchemical.com
www.topilene.com

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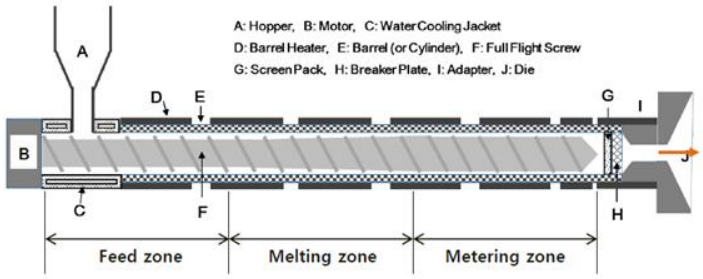
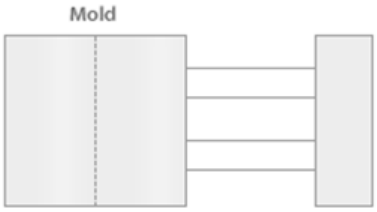
Processing Conditions





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.

Health, Safety and Food Contact Regulations

***Topilene*® J842N** complies with FDA requirements in the code of Federal Regulations in 21 CFR 177. 1520 for food contact.

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Storage and Handling

This product should be stored in dry condition at temperature below 40℃ 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. ***Topilene***® is a registered trademark owned or used by HYOSUNG VINA CHEMICALS CORPORATION.

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