

TECHNICAL DATA SHEET

Topilene® HB242P **PP-HM Polypropylene Block Copolymer** For PP-B Pipes and Fittings(Non-Pressure Pipes)

Product Description

Topilene® HB242P is a specially designed polypropylene block copolymer (PP-B, natural colored) that features high modulus(PP-HM) and excellent long-term hydrostatic pressure resistance. It is suitable for underground drainage & sewage pipes and fittings. It is the outcome of HYOSUNG's integrated polymerization and crystallization technology with advanced PP manufacturing process technique.

Characteristics

Typical Application	Drainage & sewage pipes and fittings (Solid wall & twin wall corrugated pipes system) / Industrial pipes
Features	Excellent long-term hydrostatic pressure resistance / Excellent stiffness and impact strength balance / Enhanced big diameter pipe manufacturing processability / Chemical stability / Environment-friendly
Compliance	The pipes produced with Topilene® HB242P complies with the hydrostatic pressure requirements according to ISO/DIS 15874. It complies with the requirements of FDA 21 CFR 177.1520.

Typical Properties

Resin Properties	Method	Value	Unit
Melt Index(230°C, 2.16kg)	ASTM D1238	0.30	g/10min
Density	ASTM D792	0.90	g/cm³
Tensile Strength at Yield	ASTM D638	320	kg/cm²
Flexural Modulus	ASTM D790	18,000	kg/cm²
Notched Izod Impact Strength(23°C / -10°C)	ASTM D256	N.B / 5.0	kg-cm/cm
Rockwell Hardness	ASTM D785	85	R-Scale
Heat Deflection Temperature	ASTM D648	134	°C
Vicat Softening Point	ASTM D1525	157	°C

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°C/2~4hours at air circulated condition)

Contacts

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For PP-B Pipes and Fittings(Non-Pressure Pipes)**Process Guidelines**

The actual extrusion conditions will depend on the type of equipment and the SDR of pipes produced. The below conditions may be used as guidelines for this material.

Cylinder feeding zone	170-190°C
Cylinder melting zone	190-225°C
Cylinder mixing zone	200-235°C
Head	200-235°C
Die	200-235°C
Melt temperature	200-235°C
Cooling temperature	20-30°C

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. **Topilene®** is a registered trademark owned or used by HYOSUNG CHEMICAL CORPORATION.

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