

Topilene® R200P**Polypropylene Random Copolymer**
For PP-R Pipes and Fittings(Pressure Pipes Systems)**Product Description**

Topilene® R200P is a specially designed polypropylene random copolymer (PP-R, natural colored) that features excellent long-term hydrostatic pressure resistance and heat stability. It is suitable for hot & cold water supply pipes and fittings as well as radiator connecting pipes. It is the outcome of HYOSUNG's integrated bimodal polymerization and crystallization technology with advanced PP manufacturing process technique.

Characteristics

| | |
|----------------------------|--|
| Typical Application | Hot & cold water supply pipes and fittings / Radiator connecting pipes |
| Features | Excellent long-term hydrostatic pressure resistance and heat stability (PPR 125, MRS 12.5 MPa, CRS 3.3 MPa) / Excellent stiffness and impact strength balance / Chemical stability / Environment-friendly / Enhanced processability |
| Compliance | The pipes produced with Topilene® R200P complies with the hydrostatic pressure requirements according to DIN 8078, ISO/DIS 15874-2, GB/T 18742 and KS M 3362. This product complies with the requirements of NSF/ANSI 14, FDA 21 CFR 177.1520 and (EU) No 10/2011 for food contact. It is WRAS approved material and it corresponds to the BS6920, DVGW W270/KTW guidelines and GB/T 17219 for drinking water system. |

Typical Properties

| Resin Properties | Method | Value | Unit |
|---|-----------|----------------------------|-------------------|
| Melt Index 熔体质量流动速率(230°C, 2.16g) | ISO 1133 | 0.25 | g/10min |
| Density 密度 | ISO 1183 | 0.90 | g/cm ³ |
| Ash Content 灰分 | ISO 3451 | 0.02 | % |
| Melting Temperature 熔融温度 | ISO 11357 | 144 | °C |
| Oxidation Induction Time 氧化诱导时间(210°C, 铝皿) | ISO 11357 | 40 | min |
| Heat Deflection Temperature 负荷变形温度 | ISO 75 | 68 | °C |
| Tensile Modulus of Elasticity 拉伸弹性模量 | ISO 527 | 900 | MPa |
| Tensile Strength at Yield 拉伸屈服应力 | ISO 527 | 27 | MPa |
| Tensile Strain at Break 拉伸断裂标称应变 | ISO 527 | 830 | % |
| Charpy Impact Strength, notched 简支梁缺口冲击强度(23°C / -20°C) | ISO 179 | 70 / 2.8 | kJ/m ² |
| Mean Coefficient of Linear Thermal Expansion(0°C-80°C) | DIN 53752 | 1.5*10⁻⁴ | K ⁻¹ |

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

Contacts

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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)

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 | 160-180°C |
| Cylinder melting zone | 180-210°C |
| Cylinder mixing zone | 180-220°C |
| Head | 180-220°C |
| Die | 180-220°C |
| Melt temperature | 200-220°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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