

Technical Data Sheet

Purell HP570M



Polypropylene, Homopolymer

Product Description

Purell HP570M is a polypropylene homopolymer for use in injection molding and film applications.

Purell HP570M is typically used in medical device components, closures, labware parts.

All potential activities for applications in the pharmaceutical, medical device, laboratory and diagnostics area have to be discussed with the relevant Technical and Business contacts first. To discuss a medical/pharmaceutical application please contact your local Lyondellbasell reference or your local Distributor.

This grade is supported for use in drinking water applications.

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|--------------------------|--|
| Application | Healthcare Applications; Infusion Bags; Medical Devices; Medical Film; Secondary Packaging |
| Market | Healthcare |
| Processing Method | Cast Film; Injection Molding |
| Attribute | Autoclavable; Ethylene Oxide Sterilisation; Homopolymer |

| Typical Properties | Nominal Value | Units | Test Method |
|--|---------------|-------------------|---------------|
| Physical | | | |
| Melt Flow Rate, (230 °C/2.16 kg) | 7.5 | g/10 min | ISO 1133-1 |
| Density, (23 °C) | 0.90 | g/cm ³ | ISO 1183-1 |
| Mechanical | | | |
| Tensile Modulus | 1400 | MPa | ISO 527-1, -2 |
| Tensile Stress at Yield | 33 | MPa | ISO 527-1, -2 |
| Tensile Strain at Break | >50 | % | ISO 527-1, -2 |
| Tensile Strain at Yield | 11 | % | ISO 527-1, -2 |
| Impact | | | |
| Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A) | 4.5 | kJ/m ² | ISO 179 |
| Hardness | | | |
| Ball Indentation Hardness, (H 358/30) | 64 | MPa | ISO 2039-1 |
| Thermal | | | |
| Vicat Softening Temperature, (A50) | 154 | °C | ISO 306 |
| Heat Deflection Temperature B, (0.45 MPa, Unannealed) | 85 | °C | ISO 75B-1, -2 |