

Purell HP570R

Polypropylene Homopolymer

LyondellBasell Industries

Message:

Without exception, all potential activities for applications in the pharmaceutical, medical device, laboratory and diagnostics area have to be discussed with the relevant Technical (P & AD) and Business contacts first.

To discuss a medical/pharmaceutical application please contact: your local Distributor or your local Basell contact Purell HP570R is a homopolymer suitable for injection moulding applications It exhibits a high fluidity combined with a high stiffness.

Purell HP570R is extensively applied in 3-part syringes, closures and general injection moulding for thin-walled, warpage-critical applications.

For regulatory information please refer to Purell HP570R Product Stewardship Bulletin (PSB)

| General Information | | | |
|---|---------------------------------|-------------------|-------------|
| Features | Ethylene Oxide Sterilizable | | |
| | Good Flow | | |
| | Good Stiffness | | |
| | Homopolymer | | |
| | Low Warpage | | |
| Uses | Closures | | |
| | Hypodermic Syringe Parts | | |
| | Labware | | |
| | Medical/Healthcare Applications | | |
| | Thin-walled Parts | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.900 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 23 | g/10 min | ISO 1133 |
| Hardness | Nominal Value | Unit | Test Method |
| Ball Indentation Hardness (H 358/30) | 72.0 | MPa | ISO 2039-1 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 1500 | MPa | ISO 527-2 |
| Tensile Stress (Yield, 23°C) | 34.0 | MPa | ISO 527-2 |
| Tensile Strain | | | ISO 527-2 |
| Yield | 8.0 | % | |
| Break, 23°C | > 50 | % | |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength (23°C) | 2.5 | kJ/m ² | ISO 179 |
| Charpy Unnotched Impact Strength (23°C) | 110 | kJ/m ² | ISO 179 |
| Thermal | Nominal Value | Unit | Test Method |

| | | | |
|--|------|----|-----------------------|
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 85.0 | °C | ASTM D648, ISO 75-2/B |
| Vicat Softening Temperature | | | |
| -- | 153 | °C | ISO 306/A50 |
| -- | 90.0 | °C | ISO 306/B50 |

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

