Technical Data Sheet

# *Purell* RP375R

Polypropylene, Random Copolymer

## Product Description

*Purell* RP375R is a polypropylene random copolymer for use in injection molding applications.
*Purell* RP375R exhibits excellent transparency and good physical-mechanical balance of properties.
*Purell* RP375R has a tailor made additivation package to enhance its resistance to irradiation, making it suitable for items to be sterilized via gamma-rays.
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.

| | |
|---|---|
| **Application** | Healthcare Applications; Medical Devices; Syringes |
| **Market** | Healthcare |
| **Processing Method** | Injection Molding |
| **Attribute** | Autoclavable; E-Beam Sterilizable; Ethylene Oxide Sterilisation; Good Optical Properties; Medium Flow; Radiation Sterilizable; Random Copolymer |

| Typical Properties | Nominal Value | Units | Test Method |
|---|---|---|---|
| **Physical** | | | |
| Melt Flow Rate, (230 °C/2.16 kg) | 25 | g/10 min | ISO 1133-1 |
| Density, (23 °C) | 0.90 | g/cm³ | ISO 1183-1 |
| **Mechanical** | | | |
| Tensile Modulus | 1100 | MPa | ISO 527-1, -2 |
| Tensile Stress at Yield | 27 | MPa | ISO 527-1, -2 |
| Tensile Strain at Break | >50 | % | ISO 527-1, -2 |
| Tensile Strain at Yield | 15 | % | ISO 527-1, -2 |
| **Impact** | | | |
| Charpy Impact Strength - Notched | | | |
| (23 °C, Type 1, Edgewise, Notch A) | 6.0 | kJ/m² | ISO 179 |
| (0 °C) | 2.5 | kJ/m² | ISO 179 |
| **Hardness** | | | |
| Ball Indentation Hardness, (H 358/30) | 45 | MPa | ISO 2039-1 |
| **Thermal** | | | |
| Vicat Softening Temperature, (A50) | 134 | °C | ISO 306 |
| Heat Deflection Temperature B, (0.45 MPa, Unannealed) | 78 | °C | ISO 75B-1, -2 |
| **Optical** | | | |
| Haze, (1 mm - injection molded disc) | 9 | % | ASTM D1003 |