

## Technical Data Sheet

### Purell EP370S



Polypropylene, Impact Copolymer

#### Product Description

Without exception, 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 Distributor or your local Lyondellbasell contact.

Purell EP370S is a nucleated polypropylene impact copolymer suitable for use in injection molding applications.

Purell EP370S is characterized by a good processability combined with a good stiffness-impact balance and good mechanical properties.

Purell EP370S is typically used to produce medical devices, oral care, labware and other healthcare applications.

|                          |   |
|--------------------------|---|
| <b>Status</b>            | Commercial: Active  |
| <b>Availability</b>      | Africa-Middle East; Asia-Pacific; Australia and New Zealand; Europe; North America; South & Central America |
| <b>Application</b>       | Healthcare Applications; Medical Devices  |
| <b>Market</b>            | Healthcare  |
| <b>Processing Method</b> | Injection Molding   |
| <b>Attribute</b>         | Ethylene Oxide Sterilisation; Impact Copolymer; Low Temperature Impact Resistance; Medium Flow              |

| Typical Properties                                    | Nominal Value | Units             | Test Method   |
|---|---------------|-------------------|---------------|
| <b>Physical</b>                                       |               |                   |               |
| Melt Flow Rate, (230 °C/2.16 kg)                      | 42            | g/10 min          | ISO 1133-1    |
| Density   | 0.90          | g/cm <sup>3</sup> | ISO 1183-1    |
| <b>Mechanical</b>                                     |               |                   |               |
| Tensile Modulus                                       | 1250          | MPa               | ISO 527-1, -2 |
| Tensile Stress at Yield                               | 24            | MPa               | ISO 527-1, -2 |
| Tensile Strain at Break                               | > 50          | %                 | ISO 527-1, -2 |
| Tensile Strain at Yield                               | 5             | %                 | ISO 527-1, -2 |
| <b>Impact</b>   |               |                   |               |
| Charpy Impact Strength - Notched                      |               |                   |               |
| (23 °C, Type 1, Edgewise, Notch A)                    | 7             | kJ/m <sup>2</sup> | ISO 179       |
| (0 °C, Type 1, Edgewise, Notch A)                     | 4.5           | kJ/m <sup>2</sup> | ISO 179       |
| (-20 °C, Type 1, Edgewise, Notch A)                   | 4             | kJ/m <sup>2</sup> | ISO 179       |
| <b>Thermal</b>  |               |                   |               |
| Vicat Softening Temperature, (A50)                    | 147           | °C                | ISO 306       |
| Heat Deflection Temperature B, (0.45 MPa, Unannealed) | 90            | °C                | ISO 75B-1, -2 |

#### Notes

These are typical property values not to be construed as specification limits.