

## Technical Data Sheet

### Purell HP548N



Polypropylene, Homopolymer

#### Product Description

Purell HP548N is a nucleated polypropylene homopolymer for use in injection molding applications

Purell HP548N contains anti-static additives.

Purell HP548N exhibits good stiffness and flow properties, and it is typically used in pharma packaging and medical devices components.

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.

#### Regulatory Status

For regulatory compliance information, see Purell HP548N [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

This grade is supported for use in drinking water 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>       | Caps & Closures (Healthcare); Healthcare Applications; Medical Devices                                      |
| <b>Market</b>            | Healthcare                                                                                                  |
| <b>Processing Method</b> | Injection Molding                                                                                           |
| <b>Attribute</b>         | Autoclavable; Contains Antistat; Ethylene Oxide Sterilisation; Medium Flow; Medium Stiffness; Nucleated     |

| Typical Properties                                                   | Nominal Value | Units             | Test Method   |
|----------------------------------------------------------------------|---------------|-------------------|---------------|
| <b>Physical</b>                                                      |               |                   |               |
| Melt Flow Rate, (230 °C/2.16 kg)                                     | 11            | g/10 min          | ISO 1133-1    |
| Density, (23 °C)                                                     | 0.90          | g/cm <sup>3</sup> | ISO 1183-1    |
| <b>Mechanical</b>                                                    |               |                   |               |
| Tensile Modulus                                                      | 1800          | MPa               | ISO 527-1, -2 |
| Tensile Stress at Yield                                              | 36            | MPa               | ISO 527-1, -2 |
| Tensile Strain at Break                                              | >50           | %                 | ISO 527-1, -2 |
| Tensile Strain at Yield                                              | 9             | %                 | ISO 527-1, -2 |
| <b>Impact</b>                                                        |               |                   |               |
| Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A) | 4.0           | kJ/m <sup>2</sup> | ISO 179       |
| <b>Hardness</b>                                                      |               |                   |               |
| Ball Indentation Hardness, (H 358/30)                                | 71            | MPa               | ISO 2039-1    |
| <b>Thermal</b>                                                       |               |                   |               |
| Vicat Softening Temperature, (A50)                                   | 154           | °C                | ISO 306       |
| Heat Deflection Temperature B, (0.45 MPa, Unannealed)                | 105           | °C                | ISO 75B-1, -2 |

#### Notes

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