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Technical Data Sheet

Purel/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.

This grade is supported for use in drinking water applications.

Application Caps & Closures (Healthcare); Healthcare Applications; Medical Devices

Market Healthcare

Processing Method Injection Molding

Attribute Autoclavable; Contains Antistat; Ethylene Oxide Sterilisation; Medium Flow; Medium

Stiffness; Nucleated

	Nominal		
Typical Properties	Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	11	g/10 min	ISO 1133-1
Density, (23 °C)	0.90	g/cm³	ISO 1183-1
Mechanical			
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
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	4.0	kJ/m²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	71	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (A50)	154	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	105	°C	ISO 75B-1, -2