Purell EP274P

Polypropylene Impact Copolymer

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 contactPurell EP274P is a polypropylene copolymer with nucleation. It exhibits an excellent balance of stiffness and low - temperature toughness. Purell EP274P is a medical grade for injection moulding applications in medical after approval is given by Basell. For regulatory information please refer to Purell EP274P Product Stewardship Bulletin (PSB)

General Information			
Additive	Nucleating Agent		
Features	Ethylene Oxide Sterilizable Food Contact Acceptable Good Flow Good Stiffness Impact Copolymer Low Temperature Impact Resistance Nucleated		
Uses	Containers Medical Devices Medical/Healthcare Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.900	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	20.0	cm³/10min	ISO 1133
Hardness	**Nominal Value**	**Unit**	**Test Method**
Ball Indentation Hardness (H 358/30)	45.0	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	1000	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	20.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield, 23°C	7.0	%	
Break, 23°C	> 50	%	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179

-20°C	5.0	kJ/m²	
0°C	6.0	kJ/m²	
23°C	13	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-20°C	190	kJ/m²	
0°C	No Break		

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	78.0	°C	ASTM D648, ISO 75-2/B
Ductile / Brittle Transition Temperature	-47.2	°C	ISO 6603-2
Vicat Softening Temperature			
--	142	°C	ISO 306/A50
--	56.0	°C	ISO 306/B50

Recommended distributors for this material

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

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