

# Purell RP270G

Polypropylene Random Copolymer  
LyondellBasell Industries

Message:

Purell RP270G is a medium modified random copolymer for extrusion applications with a high chemical resistance. The grade exhibits good clarity and good impact strength and an excellent processability.

Purell RP270G is used for extrusion blow moulding, film and injection moulding in Healthcare applications after approval is given by LyondellBasell.

For regulatory information please refer to Purell RP270G Product Stewardship Bulletin (PSB).

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.

General Information			
Features	Ethylene Oxide Sterilizable		
	Food Contact Acceptable		
	Good Chemical Resistance		
	Good Flow		
	Good Impact Resistance		
	Good Processability		
	High Clarity		
	Random Copolymer		
Uses	Blow Molding Applications		
	Bottles		
	Film		
	Medical/Healthcare Applications		
	Pharmaceuticals		
Forms	Pellets		
Processing Method	Blow Molding		
	Blown Film		
	Extrusion Blow Molding		
	Injection Blow Molding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.8	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	2.40	cm³/10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	47.0	MPa	ISO 2039-1

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	950	MPa	ISO 527-2
Tensile Stress (Yield)	25.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	14	%	
Break	> 50	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
0°C	3.8	kJ/m <sup>2</sup>	
23°C	28	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
0°C	210	kJ/m <sup>2</sup>	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	67.0	°C	ISO 75-2/B
Vicat Softening Temperature			
--	134	°C	ISO 306/A50
--	68.0	°C	ISO 306/B50
Optical	Nominal Value		Test Method
Gloss (60°)	95		ISO 67530

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