Purell PE 3220 D

Low Density Polyethylene

LyondellBasell Industries

Message:

Purell PE 3220 D is a low density polyethylene with high rigidity and good chemical resistance. It is delivered in pellet form. The grade is used by our customers for packaging of pharmaceuticals in the small blow moulding market such as in blow fill seal technology.
Without exception, all potential activities for applications in the pharmaceutical, medical device, laboratory and diagnostics area have to be discussed with the relevant LyondellBasell Technical and Business contacts first.

General Information	
Features	Ethylene Oxide Sterilizable
	Good Chemical Resistance
	High Rigidity
	Low Density
Uses	Blow Molding Applications
	Bottles
	Caps
	Closures
	Film
	Medical/Healthcare Applications
	Pharmaceutical Packaging
	Vials
Forms	Pellets
Processing Method	Blow Molding
	Blown Film
	Extrusion Blow Molding
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	0.930	g/cm³	ISO 1183, ASTM D1505
Apparent Density	> 0.50	g/cm³	ISO 60
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.40	g/10 min	ASTM D1238, ISO 1133
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D)	54		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
1% Secant	483	MPa	ASTM D638
--	430	MPa	ISO 527-2

Tensile Strength			
Yield	16.5	MPa	ASTM D638
Yield	13.0	MPa	ISO 527-2
Break	13.8	MPa	ASTM D638
Tensile Strain			
Yield	12	%	ISO 527-2
Break	660	%	ASTM D638
Flexural Modulus - 1% Secant	494	MPa	ASTM D790
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	48.0	°C	ASTM D648
Vicat Softening Temperature			
--	107	°C	ASTM D1525
--	110	°C	ISO 306/A50
Melting Temperature (DSC)	117	°C	ISO 3146
Injection	**Nominal Value**	**Unit**	
Processing (Melt) Temp	170 to 220	°C	
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	170 to 220	°C	

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