Purell PE 3020 D

Low Density Polyethylene

LyondellBasell Industries

Message:

Purell PE 3020 D is a low density polyethylene with high rigidity, good opticals and good chemical resistance. It is delivered in pellet form. The grade is used by our customers for small blow mouldings including packaging of pharmaceuticals in blow fill seal technology and injection moulding for medical devices, closures and seals.
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 contact.

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

Physical	Nominal Value	Unit	Test Method
Density	0.927	g/cm³	ISO 1183, ASTM D1505
Apparent Density	> 0.50	g/cm³	ISO 60
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30	g/10 min	ASTM D1238, ISO 1133
Environmental Stress-Cracking Resistance	16.0	hr	ASTM D1693
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D)	51		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			

1% Secant	434	MPa	ASTM D638
23°C	300	MPa	ISO 527-2
Tensile Strength			
Yield	15.2	MPa	ASTM D638
Yield, 23°C	13.0	MPa	ISO 527-2
Break	15.2	MPa	ASTM D638
Tensile Elongation (Break)	700	%	ASTM D638
Flexural Modulus - 1% Secant	414	MPa	ASTM D790
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Recommended / Available	60 to 150 µm		
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	46.0	°C	ASTM D648
Vicat Softening Temperature	102	°C	ASTM D1525, ISO 306/A50
Melting Temperature (DSC)	114	°C	ISO 3146
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	170 to 220	°C	

Recommended distributors for this material

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WECHAT