

LyondellBasell Lupolen® 6021 D HDPE, Blow Molding Grade

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Blow Molding Grade

Material Notes:

Easy flow, blow molding grade for small, rigid, thin-walled containers (up to 5 l), pots (up to 1 l), bottles and canisters (up to 5 l) for packaging mineral oil, antifreeze, brake fluid; drink bottles, handled containers (up to 6 l), etc. Data was collected by ISO methods and originally provided by BASF. The Lupolen® product line is now produced by Basell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Lupolen-6021-D-HDPE-Blow-Molding-Grade.php

Physical Properties	Metric	English	Comments
Density	0.960 g/cc	0.0347 lb/in ³	
Water Absorption	0.010 %	0.010 %	
Moisture Absorption at Equilibrium	0.050 %	0.050 %	
Melt Flow	0.265 g/10 min @Load 2.16 kg, Temperature 190 °C	0.265 g/10 min @Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	30.0 MPa	4350 psi	
Elongation at Break	>= 50 %	>= 50 %	
Elongation at Yield	8.0 %	8.0 %	
Tensile Modulus	1.40 GPa	203 ksi	
Tensile Impact Strength	120 kJ/m ²	57.1 ft-lb/in ²	
Tensile Creep Modulus, 1 hour	510 MPa	74000 psi	
Tensile Creep Modulus, 1000 hours	340 MPa	49300 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	140 µm/m-°C @Temperature 20.0 °C	77.8 µin/in-°F @Temperature 68.0 °F	
Melting Point	135 °C	275 °F	
Deflection Temperature at 0.46 MPa (66 psi)	84.0 °C	183 °F	
Deflection Temperature at 1.8 MPa	46.0 °C	115 °F	

(264 psi) Thermal Properties	Metric	English	Comments
Vicat Softening Point	80.0 Å°C	176 Å°F	
Flammability, UL94	HB	HB	
	@Thickness 0.400 mm	@Thickness 0.0157 in	
Oxygen Index	17 %	17 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	
Dielectric Constant	2.4	2.4	
	@Frequency 100 Hz	@Frequency 100 Hz	
	2.4	2.4	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	150 kV/mm	3810 kV/in	
Dissipation Factor	0.00020	0.00020	
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.00020	0.00020	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	600 V	600 V	

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