

LyondellBasell Lupolen® 6031 M HDPE, Injection Molding Grade

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Injection Molded

Material Notes:

Easy flow, injection molding grade for fruit crates, tote boxes and bottle crates, cartridges, protective headgear, buckets, dishes, cartridges for adhesive film canisters, aerosol lids, child seats for automobiles, connector housings, cable clips. 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-6031-M-HDPE-Injection-Molding-Grade.php

Physical Properties	Metric	English	Comments
Density	0.963 g/cc	0.0348 lb/in ³	
Water Absorption	0.010 %	0.010 %	
Moisture Absorption at Equilibrium	0.050 %	0.050 %	
Linear Mold Shrinkage, Flow	0.016 cm/cm	0.016 in/in	
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	
Melt Flow	10.5 g/10 min @Load 2.16 kg, Temperature 190 °C	10.5 g/10 min @Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	31.0 MPa	4500 psi	
Elongation at Break	>= 50 %	>= 50 %	
Elongation at Yield	7.0 %	7.0 %	
Tensile Modulus	1.50 GPa	218 ksi	
Tensile Impact Strength	65.0 kJ/m ²	30.9 ft-lb/in ²	
Tensile Creep Modulus, 1 hour	570 MPa	82700 psi	
Tensile Creep Modulus, 1000 hours	400 MPa	58000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	135 µm/m-°C @Temperature 20.0 °C	75.0 µin/in-°F @Temperature 68.0 °F	
Melting Point	135 °C	275 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (264 psi)	49.0 Â°C	120 Â°F	
Vicat Softening Point	72.0 Â°C	162 Â°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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