

LyondellBasell Lupolen® 5621 D HDPE

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

Material Notes:

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-5621-D-HDPE.php

Physical Properties	Metric	English	Comments
Density	0.955 g/cc	0.0345 lb/in ³	
Water Absorption	0.010 %	0.010 %	
Moisture Absorption at Equilibrium	0.010 %	0.010 %	
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	28.0 MPa	4060 psi	
Elongation at Break	>= 50 %	>= 50 %	
Elongation at Yield	9.0 %	9.0 %	
Tensile Modulus	1.20 GPa	174 ksi	
Tensile Impact Strength	120 kJ/m ²	57.1 ft-lb/in ²	
Tensile Creep Modulus, 1 hour	450 MPa	65300 psi	
Tensile Creep Modulus, 1000 hours	310 MPa	45000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	160 µm/m-°C @Temperature 20.0 °C	88.9 µin/in-°F @Temperature 68.0 °F	
Melting Point	135 °C	275 °F	
Deflection Temperature at 0.46 MPa (66 psi)	83.0 °C	181 °F	
Deflection Temperature at 1.8 MPa (264 psi)	45.0 °C	113 °F	
Vicat Softening Point	79.0 °C	174 °F	

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 0.400 mm	@Thickness 0.0157 in	
Oxygen Index	17 %	17 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 1.00 \times 10^{15}$ ohm-cm	$\geq 1.00 \times 10^{15}$ ohm-cm	
Surface Resistance	1.00×10^{14} ohm	1.00×10^{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	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China