

LyondellBasell Lupolen® UHM 301 MDPE, Ultra-High Molecular Weight

Category : Polymer , Thermoplastic , Polyethylene (PE) , MDPE , Medium Density Polyethylene (MDPE), Ultra High Molecular Weight

Material Notes:

For the production of very high abrasion and impact resistant parts with lower slip/stick friction, as well as higher stress crack and chemical resistance. Apart from anticorrosion products, this material contains no other additives. 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-UHM-301-MDPE-Ultra-High-Molecular-Weight.php

Physical Properties	Metric	English	Comments
Density	0.929 g/cc	0.0336 lb/in ³	
Water Absorption	0.10 %	0.10 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	20.0 MPa	2900 psi	
Elongation at Break	>= 50 %	>= 50 %	
Elongation at Yield	14 %	14 %	
Tensile Modulus	0.725 GPa	105 ksi	
Tensile Creep Modulus, 1 hour	260 MPa	37700 psi	
Tensile Creep Modulus, 1000 hours	200 MPa	29000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	210 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	117 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Melting Point	136 $\text{Å}^\circ\text{C}$	277 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	61.0 $\text{Å}^\circ\text{C}$	142 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	41.0 $\text{Å}^\circ\text{C}$	106 $\text{Å}^\circ\text{F}$	
Vicat Softening Point	81.0 $\text{Å}^\circ\text{C}$	178 $\text{Å}^\circ\text{F}$	
Flammability, UL94	HB	HB	
	@Thickness 0.400 mm	@Thickness 0.0157 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	
Comparative Tracking Index	600 V	600 V	

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