

Westlake Plastics Ultra Ethylux® HDPE

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

Material Notes:

Ultra Ethylux is made from high density polyethylene resin. This material is a cost effective alternative for a variety of end uses including mild chemical and wear applications. Information provided by Westlake Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Westlake-Plastics-Ultra-Ethylux-HDPE.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	ASTM D792
Water Absorption	0.030 %	0.030 %	ASTM D570; 24 hrs.

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	27.6 MPa	4000 psi	ASTM D638
Elongation at Break	>= 700 %	>= 700 %	ASTM D638
Tensile Modulus	0.938 GPa	136 ksi	ASTM D638
Flexural Modulus	1.17 GPa	170 ksi	ASTM D790
Izod Impact, Notched	1.71 - 2.40 J/cm	3.20 - 4.50 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	126 - 198 µm/m-°C	70.0 - 110 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	127 °C	260 °F	ASTM D4591
Maximum Service Temperature, Air	98.9 °C	210 °F	Continuous Use
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.3	2.3	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	18.7 kV/mm	475 kV/in	ASTM D149

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