

Westlake Plastics Lennite® Ultra High Molecular Weight Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), UHMW PE Ultra High Molecular Weight

Material Notes:

Lennite UHMW-PE is a low friction engineering plastic with excellent chemical resistant and abrasive wear resistance. It is widely used in conveyors, packaging machinery, and food processing machinery since it is inherently low friction, wears well, and is not abrasive to mating parts. Westlake manufactures Lennite with extremely low levels of residual stress so it can be machined into complex parts with minimal deformation. Information provided by Westlake Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Westlake-Plastics-Lennite-Ultra-High-Molecular-Weight-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in ³	ASTM D792
Water Absorption	0.00 %	0.00 %	24 hrs.; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	61	61	ASTM D2240
Tensile Strength at Break	41.4 MPa	6000 psi	ASTM D638
Tensile Strength, Yield	19.3 MPa	2800 psi	ASTM D638
Elongation at Break	>= 350 %	>= 350 %	ASTM D638
Izod Impact, Notched	9.61 J/cm	18.0 ft-lb/in	ASTM D256; Double 15° Notch at 73°F

Thermal Properties	Metric	English	Comments
CTE, linear	198 µm/m-°C	110 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	95.0 °C	203 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+16 ohm-cm	>= 1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	2.3	2.3	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	90.0 kV/mm	2290 kV/in	ASTM D149
Dissipation Factor	0.00019	0.00019	ASTM D150
	@Frequency 50 Hz	@Frequency 50 Hz	

Electrical Properties

Metric

English

Comments

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