

Polymer Industries Polyslick UHMW Sheet

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Polyslick UHMW Sheet exhibits the properties of excellent impact strength, abrasion resistance, low coefficient of friction, as well as very good chemical resistance. This industrial grade material is also moisture, stain and odor resistant, and is FDA approved to be used in the food processing industry. The material is ideally suited for wear applications especially in contact with metals. UHMW is widely used in industrial applications such as chute linings, dock bumpers, paper machine parts, and conveyor wear strips and can easily be machined with ordinary wood working tools. Information provided by Polymer Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polymer-Industries-Polyslick-UHMW-Sheet.php

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in ³	ISO 1183
Water Absorption	<= 0.010 %	<= 0.010 %	ISO 62
Viscosity Test	3850 cm ³ /g	3850 cm ³ /g	ISO 307, 1157, 1628

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	17.0 MPa	2470 psi	ISO 527-2/1A
Elongation at Break	>= 50 %	>= 50 %	ISO 527-2/1A
Elongation at Yield	<= 20 %	<= 20 %	ISO 527-2/1A
Tensile Modulus	0.680 GPa	98.6 ksi	ISO 527-2/1A
Tensile Creep Modulus, 1 hour	430 MPa	62400 psi	ISO 899-1
Tensile Creep Modulus, 1000 hours	220 MPa	31900 psi	ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear	200 µm/m-°C	111 µin/in-°F	ISO 11359-2
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	65.0 °C	149 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	42.0 °C	108 °F	ISO 75-1/-2
Vicat Softening Point	80.0 °C	176 °F	ISO 306
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{12}$ ohm-cm	$\geq 1.00 \times 10^{12}$ ohm-cm	IEC 60093
Surface Resistance	$\geq 1.00 \times 10^{12}$ ohm	$\geq 1.00 \times 10^{12}$ ohm	IEC 60093
Dielectric Constant	2.1	2.1	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	3.0	3.0	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	45.0 kV/mm	1140 kV/in	IEC 60243-1
Dissipation Factor	0.00029	0.00029	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.0010	0.0010	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

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