

Polikim ULPOLEN® 1000 UHMWPE, UV, Antistatic

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

Material Notes:

In tough operating conditions and under direct sunlight, standard Ulpolen® 1000 shows signs of wear and abrasion within a period shorter than a year. It accumulates static electric during daily use. Anti static and UV stabilized Ulpolen® 1000 should be preferred in silo and truck bed linings. When static electric accumulation is not a problem, UV stabilized type is sufficient. By definition, standard Ulpolen® 1000 can't be the the universal solution material in machine design. It is possible to improve its technical properties through additives. It is inevitable that additives increase cost, but when life time of material is considered, advantages of selecting the right material become evident. Information provided by Polikim Polimer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polikim-ULPOLEN-1000-UHMWPE-UV-Antistatic.php

Physical Properties	Metric	English	Comments
Density	0.945 g/cc	0.0341 lb/in ³	ISO 1183
Water Absorption at Saturation	<= 0.010 %	<= 0.010 %	DIN 53495
Molecular Weight	9.20e+6 g/mol	9.20e+6 g/mol	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	63	63	ISO 868
Tensile Strength, Ultimate	22.0 MPa	3190 psi	ISO 527-1
Elongation at Break	>= 350 %	>= 350 %	ISO 527-1
Tensile Modulus	0.800 GPa	116 ksi	ISO 527-1
Izod Impact, Notched (ISO)	100 kJ/m ²	47.6 ft-lb/in ²	15°V; ISO 179
Coefficient of Friction	0.10 - 0.15	0.10 - 0.15	

Thermal Properties	Metric	English	Comments
CTE, linear	200 µm/m-°C	111 µin/in-°F	DIN 53752
	@Temperature 20.0 - 100 °C	@Temperature 68.0 - 212 °F	
Thermal Conductivity	0.410 W/m-K	2.84 BTU-in/hr-ft ² -°F	DIN 52612
Melting Point	133 - 138 °C	271 - 280 °F	
Maximum Service Temperature, Air	80.0 °C	176 °F	continuous
	130 °C	266 °F	short term

Minimum Service Temperature, Air Thermal Properties	-250 °C Metric	-418 °F English	Comments
	-250 °C	-418 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+10 ohm-cm	1.00e+10 ohm-cm	DIN VDE 0303
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	DIN VDE 0303
Arc Resistance	180 - 240 sec	180 - 240 sec	DIN VDE 0303

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