

Polikim ULPOLEN® 1000 UHMWPE, Oil

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

Material Notes:

The solid lubricant additive reduces Ulpolen®'s coefficient of friction even further. As the additive is dry, it does not accumulate dust or dirt. In conveyor belts, it reduces squeakings at corners and turns. Especially in bottling, it helps reduce material waste and noise. Information provided by Polikim Polimer.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	0.955 g/cc	0.0345 lb/in ³	ISO 1183
Molecular Weight	9.20e+6 g/mol	9.20e+6 g/mol	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	ISO 868
Tensile Strength, Ultimate	21.0 MPa	3040 psi	ISO 527-1
Elongation at Break	>= 50 %	>= 50 %	ISO 527-1
Tensile Modulus	0.850 GPa	123 ksi	ISO 527-1
Coefficient of Friction	0.070	0.070	
Sand Slurry	90	90	

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	
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	-250 °C	-418 °F	
	-250 °C	-418 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	DIN VDE 0303

Electrical Properties	Metric ¹² ohm	English ¹² ohm	Comments ⁰³
Arc Resistance	180 - 240 sec	180 - 240 sec	DIN VDE 0303

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