

Polikim ULPOLEN® 1000 UHMWPE, Flame Retardant

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

Material Notes:

For those producing flammable materials and in the mining industry, explosion and fire are major dangers. It is of vital importance that in conveyor belts and bunkers, lining material is flame retardant. It is possible to improve Ulpolen ® 1000's technical properties through additives depending on the application. Additives inevitably increase cost, but when life time of material and initial lining effort are considered, advantages of selecting the right material become evident. Flame retardant Ulpolen ® 1000 does not contain halogen and antimony. Smoke absorption is minimum. Information provided by Polikim Polimer.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	0.955 g/cc	0.0345 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	
Sand Slurry	100	100	

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	0.400 W/m-K	2.77 BTU-in/hr-ft ² -°F	DIN 52612
Melting Point	135 °C	275 °F	
Maximum Service Temperature, Air	80.0 °C	176 °F	continuous
	130 °C	266 °F	short term

Thermal Properties	Metric	English	Comments
Temperature, Air	-250 °C	-418 °F	
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1000 ohm-cm	1000 ohm-cm	DIN VDE 0303
Surface Resistance	10000 ohm	10000 ohm	DIN VDE 0303
Arc Resistance	180 - 240 sec	180 - 240 sec	DIN VDE 0303

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