

Orbilan ORBILAN® PE 1000 UHMW-PE

Category : Polymer , Thermoplastic , Polyethylene (PE) , MDPE

Material Notes:

Orbilan PE 1000 plastics distinguish themselves through their optimal balance of the technical features with regard to wear-resistance and impact resistance. The areas of use range from general machine and plant construction, transport and electroplate techniques, bunker and silo linings to the manufacture of fenders and sluices for hydraulic architecture. Information provided by the manufacturer

Order this product through the following link:

http://www.lookpolymers.com/polymer_Orbilan-ORBILAN-PE-1000-UHMW-PE.php

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in ³	ISO 1183
Molecular Weight	>= 5.00e+6 g/mol	>= 5.00e+6 g/mol	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ISO 868
Ball Indentation Hardness	38.0 MPa	5510 psi	ISO 2039
Tensile Strength, Yield	>= 17.0 MPa	>= 2470 psi	ISO 527-1
Elongation at Break	>= 350 %	>= 350 %	ISO 527-1
Elongation at Yield	<= 15 %	<= 15 %	ISO 527-1
Modulus of Elasticity	>= 0.650 GPa	>= 94.3 ksi	ISO 527-1
Charpy Impact, Notched	>= 20.0 J/cm ²	>= 95.2 ft-lb/in ²	ISO 179
Coefficient of Friction	0.14	0.14	DIN 53 375

Thermal Properties	Metric	English	Comments
CTE, linear	150 - 200 µm/m-°C	83.3 - 111 µin/in-°F	DIN 53 752-A
	@Temperature 20.0 - 80.0 °C	@Temperature 68.0 - 176 °F	
Thermal Conductivity	0.410 W/m-K	2.85 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	80.0 °C	176 °F	continuous
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	continuous

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	DIN 53 482

Descriptive Properties	Value	Comments
Attrition	100	Sand-Slurry procedure
Water Absorption	< 0.01 mg	

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