

Okulen® 1000 PE-UHMW, AST

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

Material Notes:

OKULEN® 1000 is an ultra high molecular low pressure polyethylene with a molecular weight of < 3.5 g/mol. It has great wear resistance, high impact strength, and excellent sliding properties ideal for applications like machine construction, plant construction, and conveyor technology.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Okulen-1000-PE-UHMW-AST.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	ISO 1183-A
Water Absorption	<= 0.10 %	<= 0.10 %	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	63 @Thickness 5.00 mm	63 @Thickness 0.197 in	3 s value; plate; ISO 868
Tensile Strength, Yield	15.0 - 20.0 MPa	2180 - 2900 psi	50 mm/min; ISO/R 527
Elongation at Break	>= 50 %	>= 50 %	50 mm/min; ISO/R 527
Creep Strength	10.0 MPa @Temperature 20.0 °C, Time 605000 sec	1450 psi @Temperature 68.0 °F, Time 168 hour	
Charpy Impact Unnotched	1.00 - 1.30 J/cm ²	4.76 - 6.19 ft-lb/in ²	ISO 11542-2
Coefficient of Friction, Dynamic	0.12 @Pressure 2.00 MPa	0.12 @Pressure 290 psi	PE-metal, V = 10 m/min; ASTM D1894
Coefficient of Friction, Static	0.17 @Pressure 2.00 MPa	0.17 @Pressure 290 psi	PE-metal, V = 10 m/min; ASTM D1894
Abrasion	110 - 120	110 - 120	Slurry-Test rel to GUR 4120 = 100%; DIN 58836

Thermal Properties	Metric	English	Comments
CTE, linear	200 µm/m-°C	111 µin/in-°F	DIN 53752
Melting Point	133 - 135 °C	271 - 275 °F	DSC ISO 3146
Maximum Service Temperature, Air	80.0 °C	176 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 1.00e+9 ohm-cm	<= 1.00e+9 ohm-cm	Teil 30; IEC 600093 / VDE 0303
Surface Resistance	<= 1.00e+7 ohm	<= 1.00e+7 ohm	Teil 30; IEC 60093 / VDE 0303

Descriptive Properties	Value	Comments
FDA Approved	Yes	

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