

Okulen® 1000 PE-UHMW, Black

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-Black.php

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in³	ISO 1183-A

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	63	63	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	
Coefficient of Friction, Dynamic	0.13 @Pressure 2.00 MPa	0.13 @Pressure 290 psi	PE-metal, V = 10 m/min; ASTM D1894
Coefficient of Friction, Static	0.18 @Pressure 2.00 MPa	0.18 @Pressure 290 psi	PE-metal, V = 10 m/min; ASTM D1894
Abrasion	100	100	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	135 - 137 °C	275 - 279 °F	ISO 3146
Maximum Service Temperature, Air	80.0 °C	176 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 1.00e+14 ohm-cm	<= 1.00e+14 ohm-cm	Teil 30; IEC 600093 / VDE 0303

Descriptive Properties	Value	Comments
FDA Approved	Yes	

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