

Okulen® 2000 PE-UHMW, SGB

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

Material Notes:

OKULEN® 2000 is an ultra high molecular low pressure polythylene with a molecular weight of > 7.000.000 g/mol plus additives for the improvement of specific material properties. It has an antistatic finish and additional lubricant for the conveyor industry. With added antioxidants, for example, which can be used at high temperatures. With additional flame retardant properties for use in rail vehicle, machinery and mining construction. With enhanced antibacterial effects.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Okulen-2000-PE-UHMW-SGB.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in³	ISO 1183-A

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ISO 868
Tensile Strength, Yield	>= 19.0 MPa	>= 2760 psi	ISO/R 527
Elongation at Break	>= 50 %	>= 50 %	ISO/R 527
Creep Strength	11.0 MPa	1600 psi	
Coefficient of Friction, Dynamic	0.080 @Pressure 2.00 MPa	0.080 @Pressure 290 psi	Metal=Rz 2.5, V = 150 mm/min; ASTM D1894
Coefficient of Friction, Static	0.13 @Pressure 2.00 MPa	0.13 @Pressure 290 psi	PE-metal, V = 10 m/min; ASTM D1894
Abrasion	66	66	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
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Color Descriptive Properties	Light grey Value	Comments
FDA Approved	No	

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