

Okulen® 500 PE-HMW, Natural

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

Material Notes:

OKULEN® 500 is a high molecular low pressure polyethylene with a molecular weight of approximately 500 g/mol. Applications include the food industry and sports center construction. It does an excellent job with its impact strength and insulating properties.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Okulen-500-PE-HMW-Natural.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	65 @Thickness 5.00 mm	65 @Thickness 0.197 in	3 s value; plate; ISO 868
Tensile Strength, Yield	26.0 MPa	3770 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	2.50 J/cm ²	11.9 ft-lb/in ²	ISO 11542-2
Coefficient of Friction, Dynamic	0.20 @Pressure 2.00 MPa	0.20 @Pressure 290 psi	PE-metal, V = 10 m/min; ASTM D1894
Abrasion	400	400	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	130 - 135 °C	266 - 275 °F	DSC 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
Surface Resistance	>= 1.00e+13 ohm	>= 1.00e+13 ohm	Teil 30; IEC 60093 / VDE 0303

Electrical Properties

Metric

English

Comments

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