

Orbilan ORBILAN® PE 500 HMW-PE

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

Material Notes:

Orbilan PE 500 plastic is used as cutting boards for the food industry and gastronomy, in refrigeration chambers as ram protection and for swing doors as well as at sports grounds for sheets or handrails when building ice-skating rinks. Information provided by the manufacturer

Order this product through the following link:

http://www.lookpolymers.com/polymer_Orbilan-ORBILAN-PE-500-HMW-PE.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	ISO 1183
Molecular Weight	500000 g/mol	500000 g/mol	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ISO 868
Ball Indentation Hardness	50.0 MPa	7250 psi	ISO 2039
Tensile Strength, Yield	27.0 MPa	3920 psi	ISO 527-1
Elongation at Break	>= 600 %	>= 600 %	ISO 527-1
Elongation at Yield	9.0 %	9.0 %	ISO 527-1
Modulus of Elasticity	1.20 GPa	174 ksi	ISO 527-1
Charpy Impact, Notched	2.50 J/cm ²	11.9 ft-lb/in ²	ISO 179
Coefficient of Friction	0.20	0.20	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	0.400 W/m-K	2.78 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	< 400	Sand-Slurry procedure
Water Absorption	< 0.01 mg	

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