

Alpase M-1™ Aluminum Mold Plate

Category : Metal , Nonferrous Metal , Aluminum Alloy , Aluminum Casting Alloy

Material Notes:

M-1™ features and benefits include: Dimensional stability, fully weldable, anodizable, consistent hardness - regardless of size, can be nickel plated, good machinability, no heat treatment required, cost effective. Applications: Used for mold applications such as injection molding, blow molding, structural foam molding, RIM and RTM molding, and rubber molds. Sizes: Thickness 1 -30 inches; Width up to 88 inches; Length up to 195 inches. Data provided by Alpase.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Alpase-M-1-Aluminum-Mold-Plate.php

Physical Properties	Metric	English	Comments
Density	2.80 g/cc	0.101 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	85	85	
Tensile Strength, Ultimate	296 MPa	42900 psi	Typical
Tensile Strength, Yield	207 MPa	30000 psi	Typical
Elongation at Break	7 - 9 %	7 - 9 %	Typical
Modulus of Elasticity	74.5 GPa	10800 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	23.2 µm/m-°C	12.9 µin/in-°F	
	@Temperature 20.0 - 100 °C	@Temperature 68.0 - 212 °F	
Thermal Conductivity	159 W/m-K	1100 BTU-in/hr-ft ² -°F	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	92.85 - 94.85 %	92.85 - 94.85 %	as balance
Copper, Cu	2.8 - 3.2 %	2.8 - 3.2 %	
Iron, Fe	0.70 - 1.2 %	0.70 - 1.2 %	
Magnesium, Mg	0.90 - 1.3 %	0.90 - 1.3 %	
Nickel, Ni	0.70 - 1.2 %	0.70 - 1.2 %	
Silicon, Si	0.050 - 0.20 %	0.050 - 0.20 %	

Titanium Ti Component Elements Properties	$\leq 0.050\%$ Metric	$\leq 0.050\%$ English	Comments
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Electrical Properties	Metric	English	Comments
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Electrical Resistivity	0.00000440 ohm-cm	0.00000440 ohm-cm	
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Descriptive Properties	Value	Comments
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Microstructure	Vacuum Tight	
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