

Alpase K100-S™ Aluminum Plate

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

Material Notes:

K100-S™ features and benefits include: Dimensional stability, fully weldable, anodizable, high elongation, consistent properties - regardless of size, close flatness and tolerances, superior corrosion resistance, can be nickel plated, smoothest aluminum surface finish. Applications: Can be painted on both sides, including heat-cured finishes; used for mold cooling and heating plates without impregnation; low pressure molds for shoes, skis, etc.; plate for composite tooling requiring vacuum integrity and dimensional stability. Sizes: Thickness 0.25 - 8 inches; Width 38.25, 48.5, and 60.5 inches (custom up to 88 inches); Length 96.5 and - 144.5 inches. Data provided by Alpase.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Alpase-K100-S-Aluminum-Plate.php

Physical Properties	Metric	English	Comments
Density	2.66 g/cc	0.0960 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	70	70	
Tensile Strength, Ultimate	283 MPa	41000 psi	Typical
Tensile Strength, Yield	124 MPa	18000 psi	Typical
Elongation at Break	12 - 15 %	12 - 15 %	Typical
Modulus of Elasticity	71.0 GPa	10300 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	23.8 µm/m-°C	13.2 µin/in-°F	
	@Temperature 20.0 - 100 °C	@Temperature 68.0 - 212 °F	
Thermal Conductivity	117 W/m-K	812 BTU-in/hr-ft ² -°F	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	94 %	94 %	as balance
Copper, Cu	0.10 - 0.20 %	0.10 - 0.20 %	
Iron, Fe	0.10 - 0.40 %	0.10 - 0.40 %	
Magnesium, Mg	4.0 - 4.9 %	4.0 - 4.9 %	
Manganese, Mn	0.40 - 1.0 %	0.40 - 1.0 %	

Component Elements Properties	Metric 40 %	English 40 %	Comments
Zinc, Zn	0.00 - 0.25 %	0.00 - 0.25 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000590 ohm-cm	0.00000590 ohm-cm	

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