

PCP-Canada ALCA 5® 5083 Cast Aluminum Mold Plate

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

Material Notes:

ALCA5® cast precision plate product has an excellent dimensional stability. The low level of internal stress reduces the plate deformation during and after machining. This high stability leads to cost saving on extra operations such as rough-milling, finishing or re-works.

Typical applications are reference plates, machine construction, molds, jigs, and construction equipments. Information provided by PCP-Canada.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PCP-Canada-ALCA-5-5083-Cast-Aluminum-Mold-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	
Tensile Strength, Yield	124 MPa	18000 psi	
Elongation at Break	16 %	16 %	in 2 inches
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	120 W/m-K	832 BTU-in/hr-ft ² -°F	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	92.55 - 95.55 %	92.55 - 95.55 %	as remainder
Chromium, Cr	0.050 - 0.25 %	0.050 - 0.25 %	
Copper, Cu	<= 0.10 %	<= 0.10 %	
Iron, Fe	<= 0.40 %	<= 0.40 %	
Magnesium, Mg	4.0 - 4.9 %	4.0 - 4.9 %	
Manganese, Mn	0.40 - 1.0 %	0.40 - 1.0 %	

Other Component Elements Properties	$\leq 0.15\%$ Metric	$\leq 0.15\%$ English	Ti + Zr Comments
Silicon, Si	$\leq 0.40\%$	$\leq 0.40\%$	
Zinc, Zn	$\leq 0.25\%$	$\leq 0.25\%$	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000640 ohm-cm	0.00000640 ohm-cm	

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