

ALIMEX PLANAL 5083 O/H111 Aluminum Alloy

Category : Metal , Nonferrous Metal , Aluminum Alloy , 5000 Series Aluminum Alloy

Material Notes:

Aluminium rolled plates which have been machined on both sides. Has a precise surface finish and high tensile strength. The temper values and the material conditions are not changed by surface-machining and clearing away of the rolled surface on both sides. Information provided by ALIMEX GmbH Annealed and slightly strain-hardened

Order this product through the following link:

http://www.lookpolymers.com/polymer_ALIMEX-PLANAL-5083-OH111-Aluminum-Alloy.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	>= 270 MPa	>= 39200 psi	Rm
Tensile Strength, Yield	>= 115 MPa @Strain 0.200 %	>= 16700 psi @Strain 0.200 %	
Elongation at Break	<= 16 %	<= 16 %	
Modulus of Elasticity	70.0 GPa	10200 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	24.2 µm/m-°C @Temperature 20.0 °C	13.4 µin/in-°F @Temperature 68.0 °F	
Thermal Conductivity	110.0 - 140.0 W/m-K	763.4 - 971.6 BTU-in/hr-ft ² -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000526 - 0.00000625 ohm-cm	0.00000526 - 0.00000625 ohm-cm	

Descriptive Properties	Value	Comments
Machinability	Good	
Protective Anodizing	Good, not decorative	
Welding Properties (WIG, MIG)	Good	

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