

ALIMEX PLANAL 6082 T651 Aluminum Alloy

Category : Metal , Nonferrous Metal , Aluminum Alloy , 6000 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 Solution heat-treated, stress-relieved by stretching a controlled amount and then artificially aged.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ALIMEX-PLANAL-6082-T651-Aluminum-Alloy.php

Physical Properties	Metric	English	Comments
Density	2.68 g/cc	0.0970 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	>= 89	>= 89	
Tensile Strength, Ultimate	>= 295 MPa	>= 42800 psi	Rm
Tensile Strength, Yield	>= 240 MPa @Strain 0.200 %	>= 34800 psi @Strain 0.200 %	
Elongation at Break	<= 8.0 %	<= 8.0 %	
Modulus of Elasticity	70.0 GPa	10200 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	23.4 µm/m-°C @Temperature 20.0 °C	13.0 µin/in-°F @Temperature 68.0 °F	
Thermal Conductivity	170.0 - 220.0 W/m-K	1180 - 1527 BTU-in/hr-ft ² -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000313 - 0.00000417 ohm-cm	0.00000313 - 0.00000417 ohm-cm	

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

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