

ALIMEX PLANAL 7075 T651/T652 Aluminum Alloy

Category : Metal , Nonferrous Metal , Aluminum Alloy , 7000 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. / Solution heat treated, stress relieved by compressing to produce a permanent set of 1% to 5% and then artificially aged.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ALIMEX-PLANAL-7075-T651T652-Aluminum-Alloy.php

Physical Properties	Metric	English	Comments
Density	2.77 g/cc	0.100 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	105 - 160	105 - 160	
Tensile Strength, Ultimate	360 - 540 MPa	52200 - 78300 psi	Rm
Tensile Strength, Yield	260 - 470 MPa @Strain 0.200 %	37700 - 68200 psi @Strain 0.200 %	
Elongation at Break	<= 6.0 %	<= 6.0 %	
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	130.0 - 160.0 W/m-K	902.2 - 1110 BTU-in/hr-ft ² -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000435 - 0.00000526 ohm-cm	0.00000435 - 0.00000526 ohm-cm	

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

Descriptive Properties	Value	Comments
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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China