

## ALIMEX 6082 T651 Aluminum Alloy Rolled

Category : Metal , Nonferrous Metal , Aluminum Alloy , 6000 Series Aluminum Alloy

### Material Notes:

Rolled aluminium material according to DIN EN standard. 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-6082-T651-Aluminum-Alloy-Rolled.php](http://www.lookpolymers.com/polymer_ALIMEX-6082-T651-Aluminum-Alloy-Rolled.php)

Physical Properties	Metric	English	Comments
Density	2.70 g/cc	0.0975 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	>= 85	>= 85	
Tensile Strength, Ultimate	>= 275 MPa	>= 39900 psi	Rm
Tensile Strength, Yield	>= 240 MPa @Strain 0.200 %	>= 34800 psi @Strain 0.200 %	
Elongation at Break	6.0 - 9.0 %	6.0 - 9.0 %	
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 <sup>2</sup> -°F	

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

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

## **Contact Songhan Plastic Technology Co.,Ltd.**

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