

## ALIMEX 2017A T451 Aluminum Alloy Rolled

Category : Metal , Nonferrous Metal , Aluminum Alloy , 2000 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 naturally aged.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ALIMEX-2017A-T451-Aluminum-Alloy-Rolled.php](http://www.lookpolymers.com/polymer_ALIMEX-2017A-T451-Aluminum-Alloy-Rolled.php)

Physical Properties	Metric	English	Comments
Density	2.801 g/cc	0.1012 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	>= 105	>= 105	
Tensile Strength, Ultimate	370 - 390 MPa	53700 - 56600 psi	Rm
Tensile Strength, Yield	>= 240 MPa @Strain 0.200 %	>= 34800 psi @Strain 0.200 %	
Elongation at Break	<= 15 %	<= 15 %	
Modulus of Elasticity	70.0 GPa	10200 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	23.0 µm/m-°C @Temperature 20.0 °C	12.8 µin/in-°F @Temperature 68.0 °F	
Thermal Conductivity	130.0 - 200.0 W/m-K	902.2 - 1388 BTU- in/hr-ft <sup>2</sup> -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000357 - 0.00000556 ohm-cm	0.00000357 - 0.00000556 ohm-cm	

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

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

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