

CNC Machining | Sheet Metal | Injection Molding | Post-Processing

6061 Aluminum plate is a precipitation-hardened aluminum alloy containing magnesium and silicon as its major alloying elements. 6061 aluminum plate is one of the most versatile of the heat-treatable alloys. 6061 is popular for its medium to high strength requirements, good toughness and excellent corrosion resistance.

Physical Properties Chemical Composition Maximum Unless Maximum Unless Element Property Range is Specified Range is Specified .40-.8 Silicon Density lb/in3 0.0975 .7 Iron Thermal 1160 Conductivity ,Btu-in/hr-ft2-F Copper .15-.40 Manganese .8-1.2 Electrical Resistivity, Ω -cm 3.99e-006 Chromium .04-.35 Specific Gravity 2.7 1090 Melting Point (Deg F) Zinc .25 10 Titanium .15 Modules of Elasticity in Tension 3.8 Others Each .05 Modules of elasticity in Torsion Others Total .15 Aluminum Balance

Mechanical Properties

Property	Maximum Unless Range is Specified
Ultimate Tensile Strength	45,000
Tensile Yield Strength	40,000
Elongation at Break	12%
Hardness, Rockwell B	60
Modules of Elasticity, ksi	10,000

The material properties in this datasheet are provided by one of the manufacturers collaborating with Naxtry. Please note that material properties may slightly vary among different manufacturers. Naxtry can accommodate customer requests for specific materials or brands.

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