

6061 T4 Aluminum Sheet

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Properties

General

Property	Temperature	Value	Comment
Density	23.0 °C	2.7 g/cm³	Typical for Wrought 6000 Series Aluminium

Mechanical

Property	Temperature	Value	Comment
Elastic modulus	23.0 °C	70 GPa	Typical for Wrought 6000 Series Aluminium
Plane-Strain Fracture Toughnes	23.0 °C	22 - 35 MPa·√m	Typical for Wrought 6000 Series Aluminium
Poisson's ratio	23.0 °C	0.33 [-]	Typical for Wrought 6000 Series Aluminium
Shear modulus	23.0 °C	26 - 26.5 GPa	Typical for Wrought 6000 Series Aluminium
Tensile strength	23.0 °C	177 MPa	
Yield strength	23.0 °C	108 MPa	

Thermal

Property	Temperature	Value	Comment
Coefficient of thermal expansion	23.0 °C	1.6E-5 - 2.4E-5 1/K	Typical for Wrought 6000 Series Aluminium
Melting point		555 - 655 °C	Typical for Wrought 6000 Series Aluminium
Specific heat capacity	23.0 °C	887 - 963 J/(kg·K)	Typical for Wrought 6000 Series Aluminium
Thermal conductivity	23.0 °C	170 - 220 W/(m·K)	Typical for Wrought 6000 Series Aluminium

Electrical

Property	Temperature	Value	Comment
Electrical conductivity	23.0 °C	2.10E+7 - 3.40E+7 S/m	Typical for Wrought 6000 Series Aluminium
Electrical resistivity	23.0 °C	2.9E-8 - 5E-8 Ω·m	Typical for Wrought 6000 Series Aluminium

Technological properties

Property	
Processing history	T4
Workability	Excellent workability.