

Plywood	
<b>Categories:</b>	<a href="#">Wood and Natural Products</a> ; <a href="#">Wood</a>
<b>Material Notes:</b>	Plywood is made of several thin layers, or 'plies' that are laminated together. The layer structure leads to more uniform properties than solid wood, since the effects of grain anisotropy are minimized. The properties of plywood vary with the quality of the constituent layers; typical values are listed below.
<b>Key Words:</b>	Timber, Lumber
<b>Vendors:</b>	<p>Read how a supplier upgraded mechanical performance while reducing weight &amp; cost vs. a <a href="#">metal/wood combination</a> with Long Glass Fiber Reinforced Thermoplastics.</p> <p><a href="#">Click here</a> to view all available suppliers for this material.</p> <p>Please <a href="#">click here</a> if you are a supplier and would like information on how to add your listing to this material.</p>

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	<a href="#">31.0</a> MPa	<a href="#">4500</a> psi	parallel to face; ASTM D3500
Flexural Modulus	<a href="#">9.30</a> GPa	<a href="#">1350</a> ksi	8.2 - 10.3 GPa. The modulus of rupture in bending is typically 0.06 GPa.
Compressive Yield Strength	<a href="#">31.0</a> - <a href="#">41.0</a> MPa	<a href="#">4500</a> - <a href="#">5950</a> psi	parallel to face per ASTM D3501
Shear Modulus	<a href="#">0.170</a> GPa	<a href="#">24.7</a> ksi	in plane (rolling shear)
	<a href="#">0.700</a> GPa	<a href="#">102</a> ksi	Through thickness (edgewise shear)
Shear Strength	<a href="#">1.90</a> MPa	<a href="#">276</a> psi	in plane (rolling shear)
	<a href="#">6.20</a> MPa	<a href="#">899</a> psi	through thickness (edgewise shear)
Thermal Properties	Metric	English	Comments
CTE, linear	<a href="#">6.10</a> $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	<a href="#">3.39</a> $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	parallel to face

	@Temperature 20.0 °C	@Temperature 68.0 °F	
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[References](#) for this datasheet.

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's [terms of use](#) regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into MatWeb.