

## Vista Metals ATP-5™ Precision Cast Aluminum Plate

Category : Metal , Nonferrous Metal , Aluminum Alloy , Aluminum Casting Alloy

**Material Notes:**

Used where flatness and dimensional control are critical, such as: computer & electronics, pharmaceuticals, medical testing equipment, packaging machinery, printing machinery, thermoforming tools, machining fixtures, drill jigs, index tables, mold cooling & heating plates, templates, vacuum chucks, food machinery molding plate, automotive and base plates. Features: Superior Anodizing and Hardening Response; Higher Strength & Elongation; Excellent Weldability; Improved Corrosion Resistance; High Strength to Weight Ratio; Dimensional Stability

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Vista-Metals-ATP-5-Precision-Cast-Aluminum-Plate.php](http://www.lookpolymers.com/polymer_Vista-Metals-ATP-5-Precision-Cast-Aluminum-Plate.php)

Physical Properties	Metric	English	Comments
Density	2.66 g/cc	0.0960 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	70	70	
Tensile Strength, Ultimate	283 MPa	41000 psi	
Tensile Strength, Yield	124 MPa	18000 psi	
Elongation at Break	12 - 15 %	12 - 15 %	in 2"
Modulus of Elasticity	69.6 GPa	10100 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	23.6 $\mu\text{m}/\text{m}\cdot\text{C}$	13.1 $\mu\text{in}/\text{in}\cdot\text{F}$	
	@Temperature 20.0 - 100 °C	@Temperature 68.0 - 212 °F	
	24.1 $\mu\text{m}/\text{m}\cdot\text{C}$	13.4 $\mu\text{in}/\text{in}\cdot\text{F}$	
	@Temperature 101 - 200 °C	@Temperature 213 - 392 °F	
Thermal Conductivity	140 W/m-K	972 BTU-in/hr-ft <sup>2</sup> -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000059 ohm-cm	0.0000059 ohm-cm	

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