

Vista Metals Duramold-2™ Cast Aluminum Mold Plate

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

Material Notes:

Used for molds for the automotive industry, blow molds, structural foam molds, rubber molds, low pressure injection molds, Thermoforming molds, R.I.M. and R.T.M. molding. Features: Excellent Machinability; Dimensional Stability; High Brinell Hardness; Excellent Weldability; High Strength; Ultrasonically Inspected; Gauge 2" - 38"; widths up to 94". Surface Condition & Roughness: Machined 2 Sides (25 RMS) Sawed Surface (+.125"/-0)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Vista-Metals-Duramold-2-Cast-Aluminum-Mold-Plate.php

Physical Properties	Metric	English	Comments
Density	2.80 g/cc	0.101 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	81	81	
Tensile Strength, Ultimate	262 MPa	38000 psi	
Tensile Strength, Yield	138 MPa	20000 psi	
Elongation at Break	7 - 9 %	7 - 9 %	in 2"
Modulus of Elasticity	73.8 GPa	10700 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	22.3 $\mu\text{m}/\text{m}\cdot\text{°C}$	12.4 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 - 100 °C	@Temperature 68.0 - 212 °F	
Thermal Conductivity	23.2 $\mu\text{m}/\text{m}\cdot\text{°C}$	12.9 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 101 - 200 °C	@Temperature 213 - 392 °F	
Thermal Conductivity	164 W/m-K	1140 BTU-in/hr-ft ² -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000044 ohm-cm	0.0000044 ohm-cm	

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