



DURAMOLD-5™ ALUMINUM MOLD PLATE

Highest caliber. So is the metal.™

Vista Metals Corp. is committed to meeting the diverse needs of its customers by providing our Duramold line of Aluminum Mold Plate products. **Duramold-5™** is another premier product developed by Vista Metals Corp. to offer mold builders an additional option for their plastic mold applications. Our state of the art technology combines this aluminum-magnesium alloy with our unparalleled size capabilities for plastic mold applications ranging from small to extremely large. With slightly less strength and hardness than Duramold-2™, the 5% weight reduction of this alloy offers a high strength to weight ratio for consideration in applications where higher mold operating temperatures are not of concern.

DURAMOLD-5™ ALUMINUM MOLD PLATE ADVANTAGES:

- Vista Metals V-Class Quality Assurance
- Available up to 38" Thick & 94" Wide
- Fully Homogenized & Stress Relieved
- Dimensionally Stable During Machining
- Consistent Properties Throughout Entire Plate
- Suitable For Many Polished Surface Applications
- Virtually Any Thickness up to 38" Available
- Accepts Anodized, Nickel & Other Coatings
- Accepts Mold Finishes and Textures
- Higher Elongation Properties
- Superior Corrosion Resistance¹
- High Strength to Weight Ratio²
- Excellent Welding Characteristics
- Excellent Machinability
- Ultrasonically Inspected
- 5083 Aluminum Alloy
- Equiaxial Fine Grain Structure
- Vacuum & Pressure Integrity Guaranteed

1. Passes ASTM-B117 Standard Salt Spray (Fog) Corrosion Test
2. Density offers a weight savings over other rolled aluminum and mold plate products.

DURAMOLD-5™ APPLICATIONS

Plastic Molds From Prototype to Production, Injection Molds, Blow Molds, Rubber Molds, Structural Foam Molds, Thermoforming Molds, Compression Molds, RIM Molds, RTM Molds, Composite Molds, Aerospace Fixtures, Robotic Components, Inspection Tables & Tools, Semiconductor & Solar Manufacturing Components, Printing Machinery, Foundry Patterns, Packaging Machinery, Index Tables, Assembly Tables, Vacuum Tables, Router Tables, Heating & Cooling Platens. Product designers worldwide are discovering new applications continuously.

Welding Guidelines Available Upon Request

SPECIFICATIONS AND PROPERTIES ON BACKSIDE 



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DURAMOLD-5™ PROPERTIES (TYPICAL):

	IMPERIAL	METRIC
Tensile Strength:	41 ksi	283 MPa
Yield Strength:	18 ksi	124 MPa
Elongation in 2":	12-15%	12-15%
Hardness:	70 HB	70 HB
Density:	.096 lb/in ³	2660 kg/m ³
Thermal Conductivity:	81 Btu/ft x h x °F	140 W/mK
Electrical Conductivity:	29% IACS	29% IACS
Modulus of Elasticity:	10.1 x 10 ⁶ psi	70,000 MPa
Coefficient of Thermal Expansion:	68-212 °F 13.1 x 10 ⁻⁶ 213-392 °F 13.4 x 10 ⁻⁶	20-100 °C 23.6 x 10 ⁻⁶ m/m°C 101-200 °C 24.2 x 10 ⁻⁶ m/m°C

DURAMOLD-5™ SPECIFICATIONS:

	IMPERIAL	METRIC
Surface Condition & Roughness:	Sawed Surface*	Sawed Surface*
Gauges:	2" to 38"	51mm - 965mm
Gauge Tolerance:	(+.125" /-0)	(+3.175mm/-0)
Widths:	Up to 94"	Up to 2388mm
Width Tolerance:	(+.250" /-0)	(+6.35mm/-0)
Lengths:*	Up to 170" long (gauges 2" - 30") Up to 100.0" long (gauges 31" to 38")	Up to 3823mm Long (gauges 51-762mm) Up to 2540mm Long (gauges 787-965mm)
Length Tolerance:	(+.250" /-0) *Longer lengths available on inquiry	(+6.35mm/-0) *Longer lengths available on inquiry
Edges:	Saw Cut	Saw Cut

Authorized Distributor of Plate Products

Clinton Aluminum
Innovative Alloys
Toll Free: 800-826-3370
www.Clintonaluminum.com



*Can be provided in machined surface by special request - Conditions apply



For assistance in choosing the product that will best fit your application, please contact one of our technical specialists listed below:

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ALL VISTA METALS PRODUCTS ARE PROUDLY PRODUCED IN THE U.S.A.