

## PCP-Canada Max 5® 5083 Cast Aluminum Mold Block

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

### Material Notes:

Max 5® is characterized by an excellent dimensional stability. It is a 5083 alloy which provides strength, good hard anodizing response, weldability, and machinability (with sintered carbide materials). Easy to recycle with high residual value at the end of its useful life. Internal low level of MAX5® porosity is guaranteed by the supplier casting technology. Quality control is made by ultrasonic inspection. The low density of the 5000 series is an advantage over other aluminum mold products. Information provided by PCP-Canada.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PCP-Canada-Max-5-5083-Cast-Aluminum-Mold-Block.php](http://www.lookpolymers.com/polymer_PCP-Canada-Max-5-5083-Cast-Aluminum-Mold-Block.php)

Physical Properties	Metric	English	Comments
Density	2.66 g/cc	0.0960 lb/in³	

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	16 %	16 %	in 2 inches
Modulus of Elasticity	71.0 GPa	10300 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	23.8 µm/m-°C	13.2 µin/in-°F	
	@Temperature 20.0 - 100 °C	@Temperature 68.0 - 212 °F	
Thermal Conductivity	120 W/m-K	832 BTU-in/hr-ft²-°F	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	92.55 - 95.55 %	92.55 - 95.55 %	as remainder
Chromium, Cr	0.050 - 0.25 %	0.050 - 0.25 %	
Copper, Cu	<= 0.10 %	<= 0.10 %	
Iron, Fe	<= 0.40 %	<= 0.40 %	
Magnesium, Mg	4.0 - 4.9 %	4.0 - 4.9 %	
Manganese, Mn	0.40 - 1.0 %	0.40 - 1.0 %	

Other Component Elements Properties	<small>&lt;= 0.15 %</small> Metric	<small>&lt;= 0.15 %</small> English	<small>Ti + Zr</small> Comments
Silicon, Si	<= 0.40 %	<= 0.40 %	
Zinc, Zn	<= 0.25 %	<= 0.25 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000640 ohm-cm	0.00000640 ohm-cm	

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