

Magnesium Elektron Elektron® 675 Magnesium Wrought Alloy

Category : Metal , Nonferrous Metal , Magnesium Alloy

Material Notes:

High strength wrought Mg alloy used for high performance components, including at elevated temperature. Excellent corrosion resistance and easily machined. Can be extruded, forged and hot formed. Supplied in the T5 condition.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Magnesium-Elektron-Elektron-675-Magnesium-Wrought-Alloy.php

Physical Properties	Metric	English	Comments
Density	1.95 g/cc	0.0704 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	110 - 118	110 - 118	
Tensile Strength	221 MPa	32000 psi	
	@Temperature 300 °C	@Temperature 572 °F	
	393 MPa	57000 psi	
	@Temperature 200 °C	@Temperature 392 °F	
	400 MPa	58000 psi	
	@Temperature 100 °C	@Temperature 212 °F	
	407 MPa	59000 psi	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Tensile Strength, Yield	124 MPa	18000 psi	
	@Strain 0.200 %, Temperature 300 °C	@Strain 0.200 %, Temperature 572 °F	
	300 MPa	43500 psi	
	@Strain 0.200 %, Temperature 100 °C	@Strain 0.200 %, Temperature 212 °F	
	300 MPa	43500 psi	
	@Strain 0.200 %, Temperature 200 °C	@Strain 0.200 %, Temperature 392 °F	
	310 MPa	45000 psi	
	@Strain 0.200 %, Temperature 20.0 °C	@Strain 0.200 %, Temperature 68.0 °F	
Elongation at Break	9.0 %	9.0 %	
	200 MPa	29000 psi	

Mechanical Properties	Metric	English	Comments
Fracture Toughness	16.0 MPa-m ^{1/2}	14.6 ksi-in ^{1/2}	K_Q

Thermal Properties	Metric	English	Comments
CTE, linear	27.4 μm/m-°C	15.2 μin/in-°F	
Thermal Conductivity	76.0 W/m-K	527 BTU-in/hr-ft ² -°F	

Descriptive Properties	Value	Comments
Corrosion Resistance	10 - 40 Mpy	ASTM B117 salt spray
Stress Corrosion Cracking	Passes ASTM G44	

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