

PEAK Werkstoff DISPAL S690 Aluminum Alloy, AlCu4MgAg, Condition T6

Category : Metal , Nonferrous Metal , Aluminum Alloy

Material Notes:

High stiffness and elongation at rupture. Property data for Condition T6 (Quench in water at RT). Information provided by PEAK Werkstoff GmbH

Order this product through the following link:

http://www.lookpolymers.com/polymer_PEAK-Werkstoff-DISPAL-S690-Aluminum-Alloy-AlCu4MgAg-Condition-T6.php

Physical Properties	Metric	English	Comments
Density	2.66 - 2.94 g/cc	0.0961 - 0.106 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	>= 135	>= 135	HV30
Tensile Strength at Break	>= 520 MPa	>= 75400 psi	
Tensile Strength, Yield	>= 430 MPa	>= 62400 psi	
Elongation at Break	>= 11.7 %	>= 11.7 %	
Modulus of Elasticity	>= 72.0 GPa	>= 10400 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	22.9 - 23.9 $\mu\text{m}/\text{m}\cdot\text{C}^\circ$	12.7 - 13.3 $\mu\text{in}/\text{in}\cdot\text{F}^\circ$	
	@Temperature 20.0 - 100 $^\circ\text{C}$	@Temperature 68.0 - 212 $^\circ\text{F}$	
	23.6 - 24.6 $\mu\text{m}/\text{m}\cdot\text{C}^\circ$	13.1 - 13.7 $\mu\text{in}/\text{in}\cdot\text{F}^\circ$	
	@Temperature 20.0 - 200 $^\circ\text{C}$	@Temperature 68.0 - 392 $^\circ\text{F}$	
	24.6 - 25.6 $\mu\text{m}/\text{m}\cdot\text{C}^\circ$	13.7 - 14.2 $\mu\text{in}/\text{in}\cdot\text{F}^\circ$	
	@Temperature 20.0 - 300 $^\circ\text{C}$	@Temperature 68.0 - 572 $^\circ\text{F}$	
Melting Point	549 - 664 $^\circ\text{C}$	1020 - 1230 $^\circ\text{F}$	
Solidus	548.7 - 554.7 $^\circ\text{C}$	1020 - 1030 $^\circ\text{F}$	
Liquidus	657.3 - 663.9 $^\circ\text{C}$	1215 - 1227 $^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	94 %	94 %	As Balance

Component Elements Properties	Metric	English	Comments
Magnesium, Mg	1.0 %	1.0 %	
Silver, Ag	1.0 %	1.0 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000480 - 0.00000500 ohm-cm	0.00000480 - 0.00000500 ohm-cm	

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