

## PEAK Werkstoff DISPAL S690 Aluminum Alloy, AlCu4MgAg, Condition T4

Category : Metal , Nonferrous Metal , Aluminum Alloy

### Material Notes:

High stiffness and elongation at rupture. Property data for Condition T4 (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-T4.php](http://www.lookpolymers.com/polymer_PEAK-Werkstoff-DISPAL-S690-Aluminum-Alloy-AlCu4MgAg-Condition-T4.php)

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

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	>= 120	>= 120	
Tensile Strength at Break	>= 517 MPa	>= 75000 psi	
Tensile Strength, Yield	>= 351 MPa	>= 50900 psi	
Elongation at Break	>= 18 %	>= 18 %	
Modulus of Elasticity	>= 70.0 GPa	>= 10200 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

<b>Component Elements Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Magnesium, Mg	1.0 %	1.0 %	
Silver, Ag	1.0 %	1.0 %	

<b>Electrical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Electrical Resistivity	0.00000480 - 0.00000500 ohm-cm	0.00000480 - 0.00000500 ohm-cm	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China