

CMW® THERMKON® 62 Tungsten Copper parts

Category : Metal , Metal Matrix Composite , Nonferrous Metal , Refractory Metal , Tungsten Alloy

Material Notes:

For matching CTE of semiconductor substrates while allowing high thermal transfer. Information provided by CMW Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CMW-THERMKON-62-Tungsten-Copper-parts.php

Physical Properties	Metric	English	Comments
Density	17.17 g/cc	0.6203 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	27	27	
Tensile Strength, Ultimate	862 MPa	125000 psi	
Tensile Strength, Yield	723 MPa	105000 psi	
Modulus of Elasticity	255 GPa	37000 ksi	
Flexural Modulus	1.24 GPa	180 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	6.10 $\mu\text{m}/\text{m}\cdot\text{°C}$	3.39 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	0.149 J/g-°C	0.0356 BTU/lb-°F	
Thermal Conductivity	160 W/m-K	1110 BTU-in/hr-ft ² -°F	
Melting Point	1080 - 3410 °C	1980 - 6170 °F	
Solidus	1080 °C	1980 °F	
Liquidus	3410 °C	6170 °F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	10 %	10 %	
Tungsten, W	90 %	90 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000493 ohm-cm	0.00000493 ohm-cm	(35% IACS)

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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