

CMW® THERMKON® 70M Molybdenum Copper parts

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

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-70M-Molybdenum-Copper-parts.php

Physical Properties	Metric	English	Comments
Density	9.85 g/cc	0.356 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	90	90	
Tensile Strength, Ultimate	690 MPa	100000 psi	
Tensile Strength, Yield	621 MPa	90100 psi	
Modulus of Elasticity	241 GPa	35000 ksi	
Flexural Modulus	1.103 GPa	160.0 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	7.20 $\mu\text{m}/\text{m}\cdot\text{°C}$	4.00 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	0.270 J/g-°C	0.0645 BTU/lb-°F	
Thermal Conductivity	160 W/m-K	1110 BTU-in/hr-ft ² -°F	
Melting Point	1080 - 2610 °C	1980 - 4730 °F	
Solidus	1080 °C	1980 °F	
Liquidus	2610 °C	4730 °F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	20 %	20 %	
Molybdenum, Mo	80 %	80 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000539 ohm-cm	0.00000539 ohm-cm	(32% 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