

CMW® THERMKON® 65M 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-65M-Molybdenum-Copper-parts.php

Physical Properties	Metric	English	Comments
Density	9.92 g/cc	0.358 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	95	95	
Tensile Strength, Ultimate	723 MPa	105000 psi	
Tensile Strength, Yield	655 MPa	95000 psi	
Modulus of Elasticity	248 GPa	36000 ksi	
Flexural Modulus	1.137 GPa	164.9 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	6.50 µm/m-°C	3.61 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	0.260 J/g-°C	0.0621 BTU/lb-°F	
Thermal Conductivity	140 W/m-K	972 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	15 %	15 %	
Molybdenum, Mo	85 %	85 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000616 ohm-cm	0.00000616 ohm-cm	(28% IACS)

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