

CMW® THERMKON® 68 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-68-Tungsten-Copper-parts.php

Physical Properties	Metric	English	Comments
Density	16.31 g/cc	0.5892 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	25	25	
Tensile Strength, Ultimate	827 MPa	120000 psi	
Tensile Strength, Yield	724 MPa	105000 psi	
Modulus of Elasticity	248 GPa	36000 ksi	
Flexural Modulus	1.206 GPa	174.9 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	0.163 J/g-°C	0.0390 BTU/lb-°F	
Thermal Conductivity	167 W/m-K	1160 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 %	
Tungsten, W	85 %	85 %	

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

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