

CMW® THERMKON® 76 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-76-Tungsten-Copper-parts.php

Physical Properties	Metric	English	Comments
Density	15.56 g/cc	0.5621 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	103	103	
Tensile Strength, Ultimate	793 MPa	115000 psi	
Tensile Strength, Yield	614 MPa	89100 psi	
Modulus of Elasticity	241 GPa	35000 ksi	
Flexural Modulus	1.17 GPa	170 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	7.60 µm/m-°C	4.22 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	0.178 J/g-°C	0.0425 BTU/lb-°F	
Thermal Conductivity	195 W/m-K	1350 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	20 %	20 %	
Tungsten, W	80 %	80 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000466 ohm-cm	0.00000466 ohm-cm	(37% IACS)

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