

CMW® ELKONITE® TC10 Tungsten Carbide Copper material

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

Material Notes:

For wiping and arcing electrical contacts and projection welding tips. Information provided by CMW Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CMW-ELKONITE-TC10-Tungsten-Carbide-Copper-material.php

Physical Properties	Metric	English	Comments
Density	11.64 g/cc	0.4205 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	100	100	
Flexural Modulus	1.24 GPa	180 ksi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	280 W/m-K	1940 BTU-in/hr-ft ² -°F	
Melting Point	>= 980 °C	>= 1800 °F	
Solidus	980 °C	1800 °F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	44 %	44 %	
WC	56 %	56 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000410 ohm-cm	0.00000410 ohm-cm	(42% IACS)

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