

CMW® ELKONITE® G14 Tungsten Carbide Silver contact material ASTM 663, Class A, infiltrated

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

Material Notes:

For arcing and current carrying electrical contacts resistant to welding and sticking. Information provided by CMW Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CMW-ELKONITE-G14-Tungsten-Carbide-Silver-contact-material-ASTM-663-Class-A-infiltrated.php

Physical Properties	Metric	English	Comments
Density	12.92 g/cc	0.4668 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	100	100	
Flexural Modulus	0.827 GPa	120 ksi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	155 W/m-K	1080 BTU-in/hr-ft ² -°F	
Melting Point	>= 980 °C	>= 1800 °F	
Solidus	980 °C	1800 °F	

Component Elements Properties	Metric	English	Comments
Silver, Ag	40 %	40 %	
WC	60 %	60 %	

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

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