

CMW® ELKONITE® 1060 Silver Tungsten Carbide Contact Material

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

Material Notes:

Electrical contactor material for medium current ac applications Information provided by CMW Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CMW-ELKONITE-1060-Silver-Tungsten-Carbide-Contact-Material.php

Physical Properties	Metric	English	Comments
Density	12.83 g/cc	0.4635 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	102	102	
Flexural Modulus	0.827 GPa	120 ksi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	260 W/m-K	1800 BTU-in/hr-ft ² -°F	
Melting Point	>= 980 °C	>= 1800 °F	
Solidus	980 °C	1800 °F	

Component Elements Properties	Metric	English	Comments
Cobalt, Co	1.5 %	1.5 %	
Silver, Ag	40 %	40 %	
WC	58.5 %	58.5 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000475 ohm-cm	0.00000475 ohm-cm	(36% IACS)

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