

## CMW® ELKONITE® 2050C Copper Tungsten Contact Material ASTM B702, Class A, infiltrated

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

**Material Notes:**

Uses: Arcing and current carrying electrical contacts. Information provided by CMW Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_CMW-ELKONITE-2050C-Copper-Tungsten-Contact-Material-ASTM-B702-Class-A-infiltrated.php](http://www.lookpolymers.com/polymer_CMW-ELKONITE-2050C-Copper-Tungsten-Contact-Material-ASTM-B702-Class-A-infiltrated.php)

Physical Properties	Metric	English	Comments
Density	12.02 g/cc	0.4343 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	70	70	
Flexural Modulus	0.655 GPa	95.0 ksi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	330 W/m-K	2290 BTU-in/hr-ft <sup>2</sup> -°F	
Melting Point	1085 - 3410 °C	1985 - 6170 °F	
Solidus	1085 °C	1985 °F	
Liquidus	3410 °C	6170 °F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	50 %	50 %	
Tungsten, W	50 %	50 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000297 ohm-cm	0.00000297 ohm-cm	(58% IACS)

### Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China