

CoorsTek Tungsten Carbide, WC

Category : Ceramic , Carbide

Material Notes:

Information provided by CoorsTek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CoorsTek-Tungsten-Carbide-WC.php

Physical Properties	Metric	English	Comments
Density	14.9 g/cc	0.538 lb/in ³	ASTM C20
Water Absorption	0.00 %	0.00 %	ASTM C373
Particle Size	2.0 µm	2.0 µm	Average Crystal Size - Thin Section Test

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	627 GPa	90900 ksi	ASTM C848
Flexural Strength	1930 MPa	280000 psi	ASTM F417
Compressive Strength	5000 MPa	725000 psi	ASTM C773

Thermal Properties	Metric	English	Comments
CTE, linear	5.10 µm/m-°C	2.83 µin/in-°F	ASTM C372
	@Temperature 25.0 - 1000 °C	@Temperature 77.0 - 1830 °F	
Thermal Conductivity	100 W/m-K	694 BTU-in/hr-ft ² -°F	ASTM C408
Maximum Service Temperature, Air	1000 °C	1830 °F	No Load

Optical Properties	Metric	English	Comments
Transmission, Visible	0.00 %	0.00 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	<= 1000 ohm-cm	<= 1000 ohm-cm	
	@Temperature 500 °C	@Temperature 932 °F	
	<= 1000 ohm-cm	<= 1000 ohm-cm	
	@Temperature 1000 °C	@Temperature 1830 °F	
	<= 1000 ohm-cm	<= 1000 ohm-cm	

Electrical Properties	@Temperature 25.0 °C Metric	@Temperature 77.0 °F English	Comments
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