

Misumi Machinable SiO₂-MgO Ceramic

Category : Ceramic , Machinable Ceramic , Oxide , Magnesium Oxide , Silicon Oxide

Material Notes:

Information provided by MISUMI Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Misumi-Machinable-SiO2-MgO-Ceramic.php

Physical Properties	Metric	English	Comments
Density	2.50 g/cc	0.0903 lb/in ³	
Water Absorption	0.000 %	0.000 %	

Mechanical Properties	Metric	English	Comments
Flexural Strength	94.0 MPa	13600 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	9.40 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	5.22 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 500 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 932 $\text{Å}^\circ\text{F}$	
	12.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	7.00 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 800 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 1470 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	1.46 W/m-K	10.1 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	
Melting Point	1200 $\text{Å}^\circ\text{C}$	2190 $\text{Å}^\circ\text{F}$	
Maximum Service Temperature, Air	1000 $\text{Å}^\circ\text{C}$	1830 $\text{Å}^\circ\text{F}$	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00\text{e}+16$ ohm-cm	$\geq 1.00\text{e}+16$ ohm-cm	
Dielectric Constant	6.00	6.00	
Dielectric Strength	40.0 kV/mm	1020 kV/in	

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