

Ceradyne Ceralloy® 6705 MgO-SiC

Category : Ceramic , Carbide , Oxide , Magnesium Oxide

Material Notes:

Applications: absorbersbuttonsInformation provided by Ceradyne Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ceradyne-Ceralloy-6705-MgO-SiC.php

Physical Properties	Metric	English	Comments
Density	3.48 g/cc	0.126 lb/in ³	

Mechanical Properties	Metric	English	Comments
Flexural Strength	200 MPa	29000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	14.8 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	8.22 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 - 1000 $^{\circ}\text{C}$	@Temperature 68.0 - 1830 $^{\circ}\text{F}$	
Thermal Conductivity	30.0 W/m-K	208 BTU-in/hr-ft ² - $^{\circ}\text{F}$	

Electrical Properties	Metric	English	Comments
Dielectric Constant	12.6	12.6	
	@Frequency 1.20e+10 Hz	@Frequency 1.20e+10 Hz	
	12.7	12.7	
	@Frequency 1e+10 Hz	@Frequency 1e+10 Hz	
Dissipation Factor	12.8	12.8	
	@Frequency 8.00e+9 Hz	@Frequency 8.00e+9 Hz	
	0.030	0.030	
	@Frequency 8.00e+9 Hz	@Frequency 8.00e+9 Hz	
	0.030	0.030	
	@Frequency 1.20e+10 Hz	@Frequency 1.20e+10 Hz	
	0.030	0.030	
	@Frequency 1e+10 Hz	@Frequency 1e+10 Hz	

Descriptive Properties	Value	Comments
Composition	MgO+5%SiC	

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