

Du-Co Ceramics DC-200-L-5 Fosterite

Category : Ceramic , Oxide , Magnesium Oxide , Silicon Oxide

Material Notes:

Properties reported below are averages from unglazed specimens. Tests performed to ASTM specifications. Actual values may vary.

Information provided by DU-CO Ceramics Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Du-Co-Ceramics-DC-200-L-5-Fosterite.php

Physical Properties	Metric	English	Comments
Density	2.80 g/cc	0.101 lb/in ³	
Water Absorption	0.00 - 0.020 %	0.00 - 0.020 %	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	7.5	7.5	
Tensile Strength, Ultimate	62.0 MPa	8990 psi	
Flexural Strength	138 MPa	20000 psi	
Compressive Strength	586 MPa	85000 psi	
Impact Test	0.580 J	0.428 ft-lb	unspecified impact test

Thermal Properties	Metric	English	Comments
CTE, linear	9.90 $\mu\text{m}/\text{m}\cdot\text{°C}$	5.50 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 - 650 °C	@Temperature 68.0 - 1200 °F	
Thermal Conductivity	3.80 W/m-K	26.4 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	1000 °C	1830 °F	Safe Operating Temp

Electrical Properties	Metric	English	Comments
Dielectric Constant	6.4	6.4	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	9.10 kV/mm	231 kV/in	
Dissipation Factor	0.0011	0.0011	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Loss Index	0.0070	0.0070	1 MHz

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