

Anderman Ceramics EM60 Mullite

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Synthetic mullite available in rod, tube, sheaths and insulators up to 10 ft (3 m) long with diameters 0.3" to 19". Information provided by Anderman Ceramics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Anderman-Ceramics-EM60-Mullite.php

Physical Properties	Metric	English	Comments
Density	2.70 g/cc	0.0975 lb/in ³	
Open Porosity	0.00 %	0.00 %	Gas Tight

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	8.0	8.0	
Flexural Strength	159 MPa	23000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	5.50 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	3.06 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 - 1000 $^{\circ}\text{C}$	@Temperature 68.0 - 1830 $^{\circ}\text{F}$	
Thermal Conductivity	5.00 W/m-K	34.7 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
	@Temperature 20.0 - 100 $^{\circ}\text{C}$	@Temperature 68.0 - 212 $^{\circ}\text{F}$	
Maximum Service Temperature, Air	1600 $^{\circ}\text{C}$	2910 $^{\circ}\text{F}$	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	62 %	62 %	
CaO	0.18 %	0.18 %	
Fe ₂ O ₃	0.82 %	0.82 %	
SiO ₂	36 %	36 %	
TiO ₂	0.39 %	0.39 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	

Electrical Properties	1.00e+5 ohm-cm Metric	1.00e+5 ohm-cm English	Comments
	@Temperature 600 °C	@Temperature 1110 °F	
Dielectric Constant	6.0	6.0	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Descriptive Properties	Value	Comments
Thermal Shock Resistance	Excellent	

Contact Songhan Plastic Technology Co.,Ltd.

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