

Anderman Ceramics EM80P Corundum

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Porous synthetic mullite with very high thermal shock. Available as tube, sheath, or rod up to 10 ft (3 m) long with diameters 0.3" to 20". Information provided by Anderman Ceramics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Anderman-Ceramics-EM80P-Corundum.php

Physical Properties	Metric	English	Comments
Density	2.40 g/cc	0.0867 lb/in ³	
Open Porosity	27 %	27 %	

Mechanical Properties	Metric	English	Comments
Flexural Strength	37.9 MPa	5500 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	5.80 µm/m-°C	3.22 µin/in-°F	
	@Temperature 20.0 - 1000 °C	@Temperature 68.0 - 1830 °F	
Thermal Conductivity	2.00 W/m-K	13.9 BTU-in/hr-ft ² -°F	
	@Temperature 20.0 - 100 °C	@Temperature 68.0 - 212 °F	
Maximum Service Temperature, Air	1500 °C	2730 °F	

Component Elements Properties	Metric	English	Comments
Al2O3	80 %	80 %	
CaO	0.15 %	0.15 %	
Fe2O3	0.56 %	0.56 %	
SiO2	19 %	19 %	
TiO2	0.24 %	0.24 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+6 ohm-cm	1.00e+6 ohm-cm	
	@Temperature 600 °C	@Temperature 1110 °F	

Descriptive Properties	Value	Comments
Thermal Shock Resistance	Excellent	

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