

McDanel Advanced Ceramics MV-30 Mullite

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Information provided by McDanel Advanced Ceramic Technologies

Order this product through the following link:

http://www.lookpolymers.com/polymer_McDanel-Advanced-Ceramics-MV-30-Mullite.php

Physical Properties	Metric	English	Comments
Bulk Density	2.80 g/cc	0.101 lb/in ³	
Porosity	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Flexural Strength	180 MPa	26100 psi	
Compressive Strength	1310 MPa	190000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	5.40 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	3.00 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 1000 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 1830 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	6.00 W/m-K	41.6 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	
	3.60 W/m-K	25.0 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	
	@Temperature 800 $\text{Å}^\circ\text{C}$	@Temperature 1470 $\text{Å}^\circ\text{F}$	
Maximum Service Temperature, Air	1680 $\text{Å}^\circ\text{C}$	3060 $\text{Å}^\circ\text{F}$	no load

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	60 %	60 %	
CaO	0.10 %	0.10 %	
Fe ₂ O ₃	0.50 %	0.50 %	
K ₂ O	0.60 %	0.60 %	
MgO	0.20 %	0.20 %	
Na ₂ O	0.20 %	0.20 %	

SiO2 Component Elements Properties	37.9 % Metric	37.9 % English	Comments
TiO2	0.50 %	0.50 %	

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