

McDanel Advanced Ceramics MV-HR1 Mullite

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Mullite ($3\text{Al}_2\text{O}_3 \cdot 2\text{SiO}_2$) is a refractory oxide material combining low thermal expansion, good mechanical strength, and resilience at elevated temperatures. Mullite is formulated to produce dense, impervious shapes, with optimized thermal shock resistance and strength. Information provided by McDanel Advanced Ceramic Technologies

Order this product through the following link:

http://www.lookpolymers.com/polymer_McDanel-Advanced-Ceramics-MV-HR1-Mullite.php

Physical Properties	Metric	English	Comments
Bulk Density	2.60 g/cc	0.0939 lb/in ³	
Porosity	0.0 %	0.0 %	

Mechanical Properties	Metric	English	Comments
Flexural Strength	140 MPa	20300 psi	
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
	190 MPa	27600 psi	
	@Temperature 1000 Å°C	@Temperature 1830 Å°F	

Thermal Properties	Metric	English	Comments
CTE, linear	5.90 Åµm/m-Å°C	3.28 Åµin/in-Å°F	
	@Temperature 20.0 - 1000 Å°C	@Temperature 68.0 - 1830 Å°F	
Thermal Conductivity	2.60 W/m-K	18.0 BTU-in/hr-ftÅ²- Å°F	
	2.10 W/m-K	14.6 BTU-in/hr-ftÅ²- Å°F	
	@Temperature 800 Å°C	@Temperature 1470 Å°F	
Maximum Service Temperature, Air	1500 Å°C	2730 Å°F	no load

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	59 %	59 %	
CaO	0.20 %	0.20 %	
Fe ₂ O ₃	0.60 %	0.60 %	

Component Elements Properties	Metric	English	Comments
K2O	0.0%	0.0%	
MgO	0.20 %	0.20 %	
Na2O	0.30 %	0.30 %	
SiO2	36 %	36 %	
TiO2	0.70 %	0.70 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1e+13 ohm-cm	1e+13 ohm-cm	

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