

McDanel Advanced Ceramics MV-20 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-20-Mullite.php

Physical Properties	Metric	English	Comments
Bulk Density	2.50 g/cc	0.0903 lb/in ³	
Porosity	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Flexural Strength	145 MPa	21000 psi	
	96.0 MPa	13900 psi	
	@Temperature 538 Â°C	@Temperature 1000 Â°F	
Compressive Strength	655 MPa	95000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	5.40 Âµm/m-Â°C	3.00 Âµin/in-Â°F	
	@Temperature 20.0 - 1000 Â°C	@Temperature 68.0 - 1830 Â°F	
Thermal Conductivity	5.00 W/m-K	34.7 BTU-in/hr-ftÂ²-Â°F	
	3.30 W/m-K	22.9 BTU-in/hr-ftÂ²-Â°F	
	@Temperature 800 Â°C	@Temperature 1470 Â°F	
Maximum Service Temperature, Air	1650 Â°C	3000 Â°F	no load

Component Elements Properties	Metric	English	Comments
Al2O3	55.2 %	55.2 %	
CaO	0.30 %	0.30 %	
Fe2O3	0.80 %	0.80 %	
K2O	0.60 %	0.60 %	

MoO Component Elements Properties	0.20 % Metric	0.20 % English	Comments
Na2O	0.40 %	0.40 %	
SiO2	41.9 %	41.9 %	
TiO2	0.50 %	0.50 %	

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