

McDanel Advanced Ceramics Z105 Yttria stabilized Zirconia

Category : Ceramic , Oxide , Zirconium 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-Z105-Yttria-stabilized-Zirconia.php

Physical Properties	Metric	English	Comments
Bulk Density	5.92 g/cc	0.214 lb/in ³	
Porosity	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Flexural Strength	276 MPa	40000 psi	
Compressive Strength	1772 MPa	257000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	11.3 Âµm/m-Â°C	6.28 Âµin/in-Â°F	
	@Temperature 20.0 - 1000 Â°C	@Temperature 68.0 - 1830 Â°F	
Thermal Conductivity	2.00 W/m-K	13.9 BTU-in/hr-ftÂ²-Â°F	
	2.00 W/m-K	13.9 BTU-in/hr-ftÂ²-Â°F	
	@Temperature 800 Â°C	@Temperature 1470 Â°F	
Maximum Service Temperature, Air	2200 Â°C	3990 Â°F	no load

Component Elements Properties	Metric	English	Comments
Al2O3	0.17 %	0.17 %	
CaO	0.10 %	0.10 %	
Fe2O3	0.030 %	0.030 %	
K2O	0.0020 %	0.0020 %	
MgO	0.010 %	0.010 %	
Na2O	0.0060 %	0.0060 %	

SiO2 Component Elements Properties	0.40 % Metric	0.40 % English	Comments
TiO2	0.14 %	0.14 %	
Y2O3	10.5 %	10.5 %	
ZrO2	89 %	89 %	

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