

## McDanel Advanced Ceramics SiAlON

Category : Ceramic , Nitride

**Material Notes:**

Information provided by McDanel Advanced Ceramic Technologies.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_McDanel-Advanced-Ceramics-SiAlON.php](http://www.lookpolymers.com/polymer_McDanel-Advanced-Ceramics-SiAlON.php)

Physical Properties	Metric	English	Comments
Bulk Density	3.24 g/cc	0.117 lb/in <sup>3</sup>	
Porosity	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Flexural Strength	760 MPa	110000 psi	
	560 MPa	81200 psi	
	@Temperature 538 Â°C	@Temperature 1000 Â°F	
Compressive Strength	3500 MPa	508000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	3.00 Âµm/m-Â°C	1.67 Âµin/in-Â°F	
	@Temperature 20.0 - 1000 Â°C	@Temperature 68.0 - 1830 Â°F	
Thermal Conductivity	21.0 W/m-K	146 BTU-in/hr-ftÂ²-Â°F	
Maximum Service Temperature, Air	1200 Â°C	2190 Â°F	no load

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