

Ceradyne Thermo-Sil® Castable 220 Fused Silica

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

Fused Silica is an excellent thermal insulator with an extremely low coefficient of thermal expansion. It is excellent for thermal shock applications. The key characteristics of this material are: High Thermal Shock Resistance Radio wave, IR & Microwave Transparent

Information provided by Ceradyne Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ceradyne-Thermo-Sil-Castable-220-Fused-Silica.php

Physical Properties	Metric	English	Comments
Bulk Density	2.06 - 2.12 g/cc	0.0744 - 0.0766 lb/in ³	
Water Absorption	13 - 15 %	13 - 15 %	ASTM C20
Porosity	13 - 15 %	13 - 15 %	ASTM C20
Crystallinity	<= 2.0 %	<= 2.0 %	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.0103 - 0.0124 GPa	1.49 - 1.80 ksi	ASTM C133
Flexural Strength	10.3 - 12.4 MPa	1490 - 1800 psi	
Compressive Strength	48.3 - 51.7 MPa	7010 - 7500 psi	ASTM C133

Thermal Properties	Metric	English	Comments
CTE, linear	1.70 µm/m-°C	0.944 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.720 W/m-K	5.00 BTU-in/hr-ft ² -°F	
Shrinkage	0.0 %	0.0 %	
	@Temperature 1100 °C	@Temperature 2010 °F	

Optical Properties	Metric	English	Comments
IR Transmittance	90 %	90 %	transparent; thickness not quantified
UV Transmittance	90 %	90 %	transparent; thickness not quantified

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