

Advanced Ceramics ACL 1091 (C-799) Alumina

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Information provided by Advanced Ceramics Limited (ACL)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Advanced-Ceramics-ACL-1091-C-799-Alumina.php

Physical Properties	Metric	English	Comments
Density	>= 3.90 g/cc	>= 0.141 lb/in ³	
Open Porosity	0.0 %	0.0 %	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell 45 N	81	81	
Modulus of Elasticity	350 GPa	50800 ksi	
Shear Strength	>= 310 MPa @Temperature 20.0 °C	>= 45000 psi @Temperature 68.0 °F	Cross Breaking Strength

Thermal Properties	Metric	English	Comments
CTE, linear	7.10 μm/m-°C @Temperature 20.0 - 200 °C	3.94 μin/in-°F @Temperature 68.0 - 392 °F	
	8.20 μm/m-°C @Temperature 20.0 - 800 °C	4.56 μin/in-°F @Temperature 68.0 - 1470 °F	
Thermal Conductivity	>= 25.0 W/m-K	>= 174 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	975 °C	1790 °F	Te Value Tk1
	1450 °C	2640 °F	Deflection temperature; No load indicated.

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+17 ohm-cm @Temperature 20.0 °C	>= 1.00e+17 ohm-cm @Temperature 68.0 °F	
	9.6 @Frequency 1e+7 Hz	9.6 @Frequency 1e+7 Hz	

Electrical Properties	^{9.6} Metric	^{9.6} English	Comments
	@Frequency 1e+9 Hz	@Frequency 1e+9 Hz	
	9.69	9.69	
	@Frequency 9.63e+9 Hz	@Frequency 9.63e+9 Hz	
Dielectric Strength	31.0 kV/mm	787 kV/in	
	@Thickness 0.500 mm	@Thickness 0.0197 in	
Dissipation Factor	<= 0.00020	<= 0.00020	
	@Frequency 9.63e+9 Hz	@Frequency 9.63e+9 Hz	

Descriptive Properties	Value	Comments
Grain Size	3-10 μ m	

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