

Advanced Ceramics ACL 1085 (C-795) 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-1085-C-795-Alumina.php

Physical Properties	Metric	English	Comments
Density	>= 3.80 g/cc	>= 0.137 lb/in ³	
Open Porosity	0.0 %	0.0 %	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell 45 N	79	79	
Modulus of Elasticity	320 GPa	46400 ksi	
Shear Strength	>= 300 MPa @Temperature 20.0 °C	>= 43500 psi @Temperature 68.0 °F	Cross Breaking Strength

Thermal Properties	Metric	English	Comments
CTE, linear	7.90 μm/m-°C @Temperature 20.0 - 600 °C	4.39 μin/in-°F @Temperature 68.0 - 1110 °F	
	8.10 μm/m-°C @Temperature 20.0 - 1000 °C	4.50 μin/in-°F @Temperature 68.0 - 1830 °F	
Thermal Conductivity	>= 18.0 W/m-K	>= 125 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	1000 °C	1830 °F	Te Value Tk1
	1452 °C	2646 °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	
	9.05 @Frequency 1e+9 Hz	9.05 @Frequency 1e+9 Hz	

Electrical Properties	Metric	English	Comments
	@Frequency 9.368e+9 Hz	@Frequency 9.368e+9 Hz	
	9.51	9.51	
	@Frequency 1e+7 Hz	@Frequency 1e+7 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	
	@Thickness 0.500 mm	@Thickness 0.0197 in	
Dissipation Factor	<= 0.00010	<= 0.00010	
	@Frequency 1e+7 Hz	@Frequency 1e+7 Hz	
	<= 0.00010	<= 0.00010	
	@Frequency 1e+9 Hz	@Frequency 1e+9 Hz	
	<= 0.00030	<= 0.00030	
	@Frequency 9.368e+9 Hz	@Frequency 9.368e+9 Hz	

Descriptive Properties	Value	Comments
Grain Size	8-15 μm	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China