

Acerde Aluminum Nitride

Category : Ceramic , Nitride

Material Notes:

Aluminum Nitride key properties: High thermal conductivity, Good resistance to abrasion and oxidation, Electrical insulating material, Low thermal expansion coefficient, Piezoelectric Aluminum Nitride main applications domains: High temperature piezoelectric pressure sensors, Substrates for electronic packages, Opto-electronics: Deep UV LEDs, Heat sinks for the microelectronics, IC packages, Power transistor, Microwave device packages, Material processing kiln furniture, Semiconductor processing chamber fixtures and insulators, Molten metal handling components, Medical (echography) Information provided by Acerde

Order this product through the following link:

http://www.lookpolymers.com/polymer_Acerde-Aluminum-Nitride.php

Physical Properties	Metric	English	Comments
Density	3.26 g/cc	0.118 lb/in ³	

Mechanical Properties	Metric	English	Comments
Vickers Microhardness	1100	1100	[Kg/mm ²]
Flexural Strength	320 MPa	46400 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	4.50 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	2.50 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature ≤ 1000 $^\circ\text{C}$	@Temperature ≤ 1830 $^\circ\text{F}$	
Thermal Conductivity	285 W/m-K	1980 BTU-in/hr-ft ² - $^\circ\text{F}$	
Melting Point	3200 $^\circ\text{C}$	5790 $^\circ\text{F}$	Under High Pressure

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