

Anderman Ceramics EA999 Sintered Alumina, 99.9%

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Densely sintered alumina is characterized by: high strength and hardness, temperature stability, electrical insulation, and high wear resistance and corrosion resistance even at high temperatures. Available in many shapes and sizes.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Anderman-Ceramics-EA999-Sintered-Alumina-999.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|--------------------------|----------|
| Density | 3.98 g/cc | 0.144 lb/in ³ | |
| Open Porosity | 0.00 % | 0.00 % | |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|---------|-----------|----------|
| Hardness, Mohs | 9.0 | 9.0 | |
| Tensile Strength | 176 MPa | 25500 psi | |
| Flexural Strength | 345 MPa | 50000 psi | |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|---|---|----------|
| CTE, linear | 8.50 $\mu\text{m}/\text{m}\cdot\text{°C}$ | 4.72 $\mu\text{in}/\text{in}\cdot\text{°F}$ | |
| Thermal Conductivity | 29.0 W/m-K @Temperature 20.0 - 100 °C | 201 BTU-in/hr-ft ² -°F @Temperature 68.0 - 212 °F | |
| Maximum Service Temperature, Air | 1900 °C | 3450 °F | |

| Component Elements Properties | Metric | English | Comments |
|--------------------------------|---------|---------|----------|
| Al ₂ O ₃ | 99.99 % | 99.99 % | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|---|---|----------|
| Volume Resistivity | 1.00e+6 ohm-cm @Temperature 600 °C | 1.00e+6 ohm-cm @Temperature 1110 °F | |
| | 1.00e+14 ohm-cm @Temperature 20.0 °C | 1.00e+14 ohm-cm @Temperature 68.0 °F | |

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