

Aremco AREMCOLOX™ 502-1900-MTTZ Dense MgO Partially Stabilized Zirconium Oxide

Category : Ceramic , Oxide , Zirconium Oxide

Material Notes:

This grade offers a high level of fracture toughness for a zirconia material. Features include excellent fracture, corrosion, thermal shock, and wear resistance. Used for pump parts, valve components, bearings, and wear linings.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-AREMCOLOX-502-1900-MTTZ-Dense-MgO-Partially-Stabilized-Zirconium-Oxide.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|-----------|----------|
| Specific Gravity | 5.85 g/cc | 5.85 g/cc | |
| Porosity | 0.00 % | 0.00 % | |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|----------|------------|----------|
| Hardness, Mohs | 8.0 | 8.0 | |
| Flexural Strength | 414 MPa | 60000 psi | |
| Compressive Strength | 1750 MPa | 254000 psi | |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|--|--|----------|
| CTE, linear | 10.1 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ | 5.60 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ | |
| Thermal Conductivity | 2.20 W/m-K | 15.3 BTU-in/hr-ft ² -°F | |
| Maximum Service Temperature, Air | 1200 °C | 2190 °F | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------------|-----------------------|----------|
| Dielectric Constant | 28 | 28 | |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |
| Dielectric Strength | 9.45 kV/mm | 240 kV/in | |
| Dielectric Loss Index | 0.0010 | 0.0010 | |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |

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