

MarkeTech MC-LD and MC-MD Ultra High Temperature Machinable Ceramics

Category : Ceramic , Oxide

Material Notes:

For very high temperatures or where thermal conductivity or thermal shock is important, these machinable alkaline/alkaline earth zirconium phosphate ceramics (NaZr₂P₃O₁₂ or BaZr₄P₆O₂₄) are recommended. MC-LD is a lower density material suitable for use where thermal shock resistance is important. MC-MD is a higher density material that is superior where better abrasion and wear resistance are desired. These materials can be water quenched from 2550Å°F (1400Å°C).

Order this product through the following link:

http://www.lookpolymers.com/polymer_MarkeTech-MC-LD-and-MC-MD-Ultra-High-Temperature-Machinable-Ceramics.php

| Physical Properties | Metric | English | Comments |
|---------------------|------------------|----------------------------------|----------|
| Density | 3.20 - 3.65 g/cc | 0.116 - 0.132 lb/in ³ | |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|-----------------------|-----------------------|----------|
| Modulus of Elasticity | 50.0 - 80.0 GPa | 7250 - 11600 ksi | |
| | @Temperature 1000 Å°C | @Temperature 1830 Å°F | |
| Flexural Strength | 40.0 - 65.0 MPa | 5800 - 9430 psi | |
| | 45.0 MPa | 6530 psi | |
| | @Temperature 1500 Å°C | @Temperature 2730 Å°F | |
| | 55.0 - 75.0 MPa | 7980 - 10900 psi | |
| | @Temperature 1000 Å°C | @Temperature 1830 Å°F | |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|-------------------|----------------------------------------|------------|
| CTE, linear | <= 1.00 Åµm/m-Å°C | <= 0.556 Åµin/in-Å°F | adjustable |
| Specific Heat Capacity | 0.500 J/g-Å°C | 0.120 BTU/lb-Å°F | |
| Thermal Conductivity | <= 1.00 W/m-K | <= 6.94 BTU-in/hr-ft ² -Å°F | |
| Melting Point | >= 1800 Å°C | >= 3270 Å°F | |
| Maximum Service Temperature, Air | 1500 Å°C | 2730 Å°F | |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
|------------------------|-------|----------|

| Color Descriptive Properties | White Value | Comments |
|---------------------------------|----------------|----------|
| Fracture Toughness | 1.0 to 1.5 Mpa | |

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