

**Ceradyne Ceralloy® 7712 Al<sub>2</sub>O<sub>3</sub>-SiC**

Category : Ceramic , Carbide , Oxide , Aluminum Oxide

**Material Notes:**

Applications: slot mode absorbers Information provided by Ceradyne Company

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ceradyne-Ceralloy-7712-Al<sub>2</sub>O<sub>3</sub>-SiC.php](http://www.lookpolymers.com/polymer_Ceradyne-Ceralloy-7712-Al2O3-SiC.php)

| Physical Properties | Metric    | English                  | Comments |
|---------------------|-----------|--------------------------|----------|
| Density             | 3.36 g/cc | 0.121 lb/in <sup>3</sup> |          |

| Mechanical Properties | Metric  | English   | Comments |
|-----------------------|---------|-----------|----------|
| Flexural Strength     | 530 MPa | 76900 psi |          |

| Electrical Properties | Metric                 | English                | Comments |
|-----------------------|------------------------|------------------------|----------|
| Dielectric Constant   | 69                     | 69                     |          |
|                       | @Frequency 1.20e+10 Hz | @Frequency 1.20e+10 Hz |          |
|                       | 83                     | 83                     |          |
|                       | @Frequency 1e+10 Hz    | @Frequency 1e+10 Hz    |          |
| Dissipation Factor    | 130                    | 130                    |          |
|                       | @Frequency 8.00e+9 Hz  | @Frequency 8.00e+9 Hz  |          |
|                       | 0.40                   | 0.40                   |          |
|                       | @Frequency 8.00e+9 Hz  | @Frequency 8.00e+9 Hz  |          |
|                       | 0.53                   | 0.53                   |          |
|                       | @Frequency 1.20e+10 Hz | @Frequency 1.20e+10 Hz |          |
|                       | 0.57                   | 0.57                   |          |
|                       | @Frequency 1e+10 Hz    | @Frequency 1e+10 Hz    |          |

| Descriptive Properties | Value                                  | Comments |
|------------------------|--|----------|
| Composition            | Al <sub>2</sub> O <sub>3</sub> +60%SiC |          |

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