

## MarkeTech Magnesium Oxide (MgO) Single Crystal Substrate

Category : Ceramic , Oxide , Magnesium Oxide

### Material Notes:

Data provided by the supplier, MarkeTech International. Developed for deposition of III-V nitrides for LEDs, Lasers, etc. Standard orientation: ; GaN Lattice Mismatch 13%.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_MarkeTech-Magnesium-Oxide-MgO-Single-Crystal-Substrate.php](http://www.lookpolymers.com/polymer_MarkeTech-Magnesium-Oxide-MgO-Single-Crystal-Substrate.php)

| Physical Properties | Metric     | English                  | Comments |
|---------------------|------------|--------------------------|----------|
| Density             | 3.58 g/cc  | 0.129 lb/in <sup>3</sup> |          |
| a Lattice Constant  | 4.216 Å... | 4.216 Å...               |          |

| Thermal Properties | Metric                                  | English                                   | Comments |
|--------------------|---|---|----------|
| CTE, linear        | 12.8 Åµm/m-Å°C<br>@Temperature 20.0 Å°C | 7.11 Åµin/in-Å°F<br>@Temperature 68.0 Å°F |          |
| Melting Point      | 2800 Å°C                                | 5070 Å°F                                  |          |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
| Dielectric Constant   | 9.8    | 9.8     |          |
| Dissipation Factor    | 0.0090 | 0.0090  |          |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Crystal Structure      | Cubic |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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