

## Cosmic Plastics K43 Mineral Filled Iso Diallyl Phthalate Molding Compound

Category : Polymer , Thermoset , Diallyl Phthalate (DAP) , Diallyl Phthalate (DAP), Cast, Mineral Filler , Filled/Reinforced Thermoset

### Material Notes:

Data provided by the manufacturer.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Cosmic-Plastics-K43-Mineral-Filled-Iso-Diallyl-Phthalate-Molding-Compound.php](http://www.lookpolymers.com/polymer_Cosmic-Plastics-K43-Mineral-Filled-Iso-Diallyl-Phthalate-Molding-Compound.php)

| Physical Properties   | Metric                | English                   | Comments     |
|-----------------------|-----------------------|---------------------------|--------------|
| Density               | 1.80 g/cc             | 0.0650 lb/in <sup>3</sup> |              |
| Water Absorption      | 0.40 %                | 0.40 %                    | 48 hrs, 50°C |
| Linear Mold Shrinkage | 0.0010 - 0.0040 cm/cm | 0.0010 - 0.0040 in/in     | typical.     |

| Mechanical Properties      | Metric     | English        | Comments |
|----------------------------|------------|----------------|----------|
| Tensile Strength, Ultimate | 41.0 MPa   | 5950 psi       |          |
| Flexural Strength          | 76.0 MPa   | 11000 psi      |          |
| Compressive Strength       | 179 MPa    | 26000 psi      |          |
| Izod Impact, Notched       | 0.230 J/cm | 0.431 ft-lb/in |          |

| Thermal Properties                          | Metric               | English              | Comments                    |
|---------------------------------------------|----------------------|----------------------|-----------------------------|
| CTE, linear                                 | 46.0 µm/m-°C         | 25.6 µin/in-°F       |                             |
|                                             | @Temperature 20.0 °C | @Temperature 68.0 °F |                             |
| Deflection Temperature at 1.8 MPa (264 psi) | 260 °C               | 500 °F               | Heat Distortion temperature |

| Electrical Properties  | Metric             | English            | Comments          |
|------------------------|--------------------|--------------------|-------------------|
| Electrical Resistivity | >= 1.00e+17 ohm-cm | >= 1.00e+17 ohm-cm |                   |
| Surface Resistance     | >= 1.00e+17 ohm    | >= 1.00e+17 ohm    |                   |
| Dielectric Constant    | 4.0                | 4.0                | Wet               |
|                        | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz |                   |
|                        | 4.7                | 4.7                | Wet               |
|                        | @Frequency 1000 Hz | @Frequency 1000 Hz |                   |
| Dielectric Strength    | 14.0 kV/mm         | 356 kV/in          | Wet, Step by Step |
|                        | 0.010              | 0.010              |                   |

| Designation Factor<br>Electrical Properties | Metric<br>@Frequency 1000 Hz | English<br>@Frequency 1000 Hz | Wet<br>Comments |
|---------------------------------------------|------------------------------|-------------------------------|-----------------|
|                                             | 0.017                        | 0.017                         | Wet             |
|                                             | @Frequency 1e+6 Hz           | @Frequency 1e+6 Hz            |                 |
| Arc Resistance                              | 180 sec                      | 180 sec                       |                 |

| Processing Properties  | Metric       | English      | Comments            |
|------------------------|--------------|--------------|---------------------|
| Processing Temperature | 135 - 165 °C | 275 - 329 °F | Molding temperature |

## Contact Songhan Plastic Technology Co.,Ltd.

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