

# Cosmic Plastics 6220F Short Glass Fiber Filled Iso Diallyl Phthalate Molding Compound

Category : Polymer , Thermoset , Diallyl Phthalate (DAP) , Diallyl Phthalate (DAP) Molding Compound, Short Glass Fiber Filled , Filled/Reinforced Thermoset

Material Notes:

Data provided by the manufacturer.

Order this product through the following link:  
[http://www.lookpolymers.com/polymer\\_Cosmic-Plastics-6220F-Short-Glass-Fiber-Filled-Iso-Diallyl-Phthalate-Molding-Compound.php](http://www.lookpolymers.com/polymer_Cosmic-Plastics-6220F-Short-Glass-Fiber-Filled-Iso-Diallyl-Phthalate-Molding-Compound.php)

| Physical Properties   | Metric                | English               | Comments     |
|-----------------------|-----------------------|-----------------------|--------------|
| Density               | 1.79 g/cc             | 0.0647 lb/in³         |              |
| Apparent Bulk Density | 0.720 g/cc            | 0.0260 lb/in³         |              |
| Water Absorption      | 0.25 %                | 0.25 %                | 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 - 69.0 MPa | 5950 - 10000 psi |          |
| Flexural Strength          | 97.0 MPa        | 14100 psi        |          |
| Compressive Strength       | 172 MPa         | 24900 psi        |          |
| Izod Impact, Notched       | 0.450 J/cm      | 0.843 ft-lb/in   |          |

| Thermal Properties                          | Metric               | English              | Comments                    |
|---------------------------------------------|----------------------|----------------------|-----------------------------|
| CTE, linear                                 | 25.0 µm/m-°C         | 13.9 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 |
| Flammability, UL94                          | V-0                  | V-0                  |                             |
|                                             | @Thickness 3.20 mm   | @Thickness 0.126 in  |                             |

| 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    | 4.1                | 4.1                | Wet      |
|                        | @Frequency 1000 Hz | @Frequency 1000 Hz |          |

| Electrical Properties | Metric             | English            | Comments          |
|-----------------------|--------------------|--------------------|-------------------|
|                       | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | Wet               |
| Dielectric Strength   | 16.0 kV/mm         | 406 kV/in          | Wet, Step by Step |
| Dissipation Factor    | 0.0090             | 0.0090             | Wet               |
|                       | @Frequency 1000 Hz | @Frequency 1000 Hz |                   |
|                       | 0.013              | 0.013              | Wet               |
|                       | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz |                   |
| Arc Resistance        | 155 sec            | 155 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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