

## Beijing Chemical Industry KAIFA® M104 MPPO Resin

Category : Polymer , Thermoplastic , Polyphenylene Ether/PP0

### Material Notes:

Flame retardant, Good flow Information provided by Beijing Chemical Industry Research Institute (Group)

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Beijing-Chemical-Industry-KAIFA-M104-MPPO-Resin.php](http://www.lookpolymers.com/polymer_Beijing-Chemical-Industry-KAIFA-M104-MPPO-Resin.php)

| Physical Properties   | Metric                | English                   | Comments         |
|-----------------------|-----------------------|---------------------------|------------------|
| Density               | 1.07 g/cc             | 0.0387 lb/in <sup>3</sup> | ASTM D792        |
| Water Absorption      | 0.10 %                | 0.10 %                    | 24 hr; ASTM D570 |
| Linear Mold Shrinkage | 0.0050 - 0.0070 cm/cm | 0.0050 - 0.0070 in/in     | ASTM D955        |

| Mechanical Properties     | Metric                 | English                    | Comments  |
|---------------------------|------------------------|----------------------------|-----------|
| Tensile Strength at Break | 40.0 MPa               | 5800 psi                   | ASTM D638 |
| Elongation at Break       | 40 %                   | 40 %                       | ASTM D638 |
| Flexural Strength         | 64.0 MPa               | 9280 psi                   | ASTM D790 |
| Flexural Modulus          | 2.20 GPa               | 319 ksi                    | ASTM D790 |
| Charpy Impact, Notched    | 1.50 J/cm <sup>2</sup> | 7.14 ft-lb/in <sup>2</sup> | ISO179    |

| Thermal Properties                          | Metric                       | English                      | Comments  |
|---|------------------------------|------------------------------|-----------|
| CTE, linear                                 | 70.0 μm/m-°C                 | 38.9 μin/in-°F               | ASTM D696 |
|   | @Temperature -30.0 - 30.0 °C | @Temperature -22.0 - 86.0 °F |           |
| Deflection Temperature at 1.8 MPa (264 psi) | 90.0 °C                      | 194 °F                       | ASTM D648 |
| Flammability, UL94                          | V-1                          | V-1                          |           |
|   | @Thickness 3.20 mm           | @Thickness 0.126 in          |           |

| Electrical Properties | Metric             | English              | Comments  |
|-----------------------|--------------------|----------------------|-----------|
| Volume Resistivity    | 1.00e+16 ohm-cm    | 1.00e+16 ohm-cm      | ASTM D257 |
| Dielectric Constant   | 2.7                | 2.7                  | ASTM D150 |
|                       | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz   |           |
| Dielectric Strength   | 22.0 kV/mm         | 559 kV/in            | ASTM D149 |
|                       | @Thickness 2.00 mm | @Thickness 0.0787 in |           |

| Electrical Properties | Metric             | English            | Comments  |
|-----------------------|--------------------|--------------------|-----------|
| Dissipation Factor    | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | ASTM D150 |

| Processing Properties     | Metric  | English   | Comments |
|---------------------------|---------|-----------|----------|
| Rear Barrel Temperature   | 260 °C  | 500 °F    |          |
| Middle Barrel Temperature | 280 °C  | 536 °F    |          |
| Front Barrel Temperature  | 280 °C  | 536 °F    |          |
| Nozzle Temperature        | 275 °C  | 527 °F    |          |
| Mold Temperature          | 80.0 °C | 176 °F    |          |
| Injection Pressure        | 120 MPa | 17400 psi |          |
| Cycle Time - Injection    | 35 sec  | 35 sec    |          |
| Screw Speed               | 70 rpm  | 70 rpm    |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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