

## Beijing Chemical Industry KAIFA® HN301-M30 PA6 Resin

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Mineral Reinforced, Impact Grade

### Material Notes:

Mineral filled, 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-HN301-M30-PA6-Resin.php](http://www.lookpolymers.com/polymer_Beijing-Chemical-Industry-KAIFA-HN301-M30-PA6-Resin.php)

| Physical Properties   | Metric                | English                   | Comments  |
|-----------------------|-----------------------|---------------------------|-----------|
| Density               | 1.40 g/cc             | 0.0506 lb/in <sup>3</sup> | ASTM D792 |
| Linear Mold Shrinkage | 0.0060 - 0.0080 cm/cm | 0.0060 - 0.0080 in/in     | ASTM D955 |

| Mechanical Properties     | Metric                  | English                    | Comments  |
|---------------------------|-------------------------|----------------------------|-----------|
| Tensile Strength at Break | 60.0 MPa                | 8700 psi                   | ASTM D638 |
| Flexural Strength         | 90.0 MPa                | 13100 psi                  | ASTM D790 |
| Charpy Impact Unnotched   | 3.50 J/cm <sup>2</sup>  | 16.7 ft-lb/in <sup>2</sup> | ISO179    |
| Charpy Impact, Notched    | 0.600 J/cm <sup>2</sup> | 2.86 ft-lb/in <sup>2</sup> | ISO179    |

| Thermal Properties                          | Metric                    | English                    | Comments  |
|---------------------------------------------|---------------------------|----------------------------|-----------|
| Deflection Temperature at 1.8 MPa (264 psi) | 140 °C                    | 284 °F                     | ASTM D648 |
| Flammability, UL94                          | V-0<br>@Thickness 3.20 mm | V-0<br>@Thickness 0.126 in |           |

| Electrical Properties | Metric                           | English                           | Comments  |
|-----------------------|----------------------------------|-----------------------------------|-----------|
| Volume Resistivity    | 1.00e+17 ohm-cm                  | 1.00e+17 ohm-cm                   | ASTM D257 |
| Dielectric Constant   | 3.3<br>@Frequency 1e+6 Hz        | 3.3<br>@Frequency 1e+6 Hz         | ASTM D150 |
| Dielectric Strength   | 25.0 kV/mm<br>@Thickness 2.00 mm | 635 kV/in<br>@Thickness 0.0787 in | ASTM D149 |
| Dissipation Factor    | 0.024<br>@Frequency 1e+6 Hz      | 0.024<br>@Frequency 1e+6 Hz       | ASTM D150 |

| Processing Properties   | Metric       | English      | Comments |
|-------------------------|--------------|--------------|----------|
| Rear Barrel Temperature | 200 - 210 °C | 392 - 410 °F |          |

| Processing Properties    | Metric          | English          | Comments |
|--------------------------|-----------------|------------------|----------|
| Front Barrel Temperature | 235 - 245 °C    | 455 - 473 °F     |          |
| Nozzle Temperature       | 235 - 240 °C    | 455 - 464 °F     |          |
| Mold Temperature         | 60.0 - 80.0 °C  | 140 - 176 °F     |          |
| Drying Temperature       | 130 °C          | 266 °F           |          |
| Dry Time                 | 4 hour          | 4 hour           |          |
| Injection Pressure       | 60.0 - 90.0 MPa | 8700 - 13100 psi |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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