

## Kotec Carbotex K-30CF10 Polycarbonate, Conductive, 10% Carbon Fiber Reinforced

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Carbon Fiber Reinforced , Polycarbonate, Conductive

### Material Notes:

Features: Conductive, 10% Carbon fiber reinforced  
 Applications: OA equipment, Communications, Precision parts, Machineries, E & E parts  
 Information provided by Kotec Corporation

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kotec-Carbotex-K-30CF10-Polycarbonate-Conductive-10-Carbon-Fiber-Reinforced.php](http://www.lookpolymers.com/polymer_Kotec-Carbotex-K-30CF10-Polycarbonate-Conductive-10-Carbon-Fiber-Reinforced.php)

| Physical Properties               | Metric                                      | English                                     | Comments  |
|-----------------------------------|---|---|-----------|
| Specific Gravity                  | 1.24 g/cc                                   | 1.24 g/cc                                   | ASTM D792 |
| Water Absorption                  | 0.20 %                                      | 0.20 %                                      | ASTM D570 |
|                                   | @Temperature 23.0<br>Â°C,<br>Time 86400 sec | @Temperature 73.4<br>Â°F,<br>Time 24.0 hour |           |
| Linear Mold Shrinkage, Flow       | 0.0030 - 0.0050 cm/cm                       | 0.0030 - 0.0050 in/in                       | ASTM D995 |
| Linear Mold Shrinkage, Transverse | 0.0030 - 0.0050 cm/cm                       | 0.0030 - 0.0050 in/in                       | ASTM D995 |

| Mechanical Properties     | Metric                   | English               | Comments                  |
|---------------------------|--------------------------|-----------------------|---------------------------|
| Tensile Strength at Break | 108 MPa                  | 15700 psi             | ASTM D638                 |
| Elongation at Break       | 118 %                    | 118 %                 | ASTM D638                 |
| Flexural Strength         | 160 MPa                  | 23200 psi             | ASTM D790                 |
| Flexural Modulus          | 6.00 GPa                 | 870 ksi               | ASTM D790                 |
| Izod Impact, Notched      | 1.20 J/cm                | 2.25 ft-lb/in         | V-Notched 1/8"; ASTM D256 |
|                           | @Temperature 23.0<br>Â°C | @Temperature 73.4 Â°F |                           |

| Thermal Properties          | Metric             | English              | Comments  |
|-----------------------------|--------------------|----------------------|-----------|
| Heat Distortion Temperature | 147 Â°C            | 297 Â°F              | ASTM D648 |
| Flammability, UL94          | V-2                | V-2                  |           |
|                             | @Thickness 1.60 mm | @Thickness 0.0630 in |           |

| Optical Properties    | Metric             | English             | Comments   |
|-----------------------|--------------------|---------------------|------------|
| Transmission, Visible | 0.00 %             | 0.00 %              | ASTM D1003 |
|                       | @Thickness 3.00 mm | @Thickness 0.118 in |            |

| Optical Properties    | Metric  | English | Comments  |
|-----------------------|---------|---------|-----------|
| Electrical Properties | Metric  | English | Comments  |
| Volume Resistivity    | 1e+05   | 1e+05   | ASTM D257 |
| Arc Resistance        | 110 sec | 110 sec | ASTM D495 |

## Contact Songhan Plastic Technology Co.,Ltd.

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