

## Kotec Carbotex K-50MRA Polycarbonate, General Purpose, Mold Release Grade

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

Features: Mold release, Medium viscosity, Transparent Applications: OA equipment, Communications, Precision parts, Machineries, Lighting fixtures, Safety products, E & E parts, Household applications, Leisure articles Information provided by Kotec Corporation

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kotec-Carbotex-K-50MRA-Polycarbonate-General-Purpose-Mold-Release-Grade.php](http://www.lookpolymers.com/polymer_Kotec-Carbotex-K-50MRA-Polycarbonate-General-Purpose-Mold-Release-Grade.php)

| Physical Properties         | Metric  | English   | Comments   |
|-----------------------------|---|---|------------|
| Specific Gravity            | 1.20 g/cc   | 1.20 g/cc   | ASTM D792  |
| Water Absorption            | 0.20 %<br>@Temperature 23.0<br>Â°C,<br>Time 86400 sec | 0.20 %<br>@Temperature 73.4<br>Â°F,<br>Time 24.0 hour | ASTM D570  |
| Linear Mold Shrinkage, Flow | 0.0050 - 0.0070 cm/cm                                 | 0.0050 - 0.0070 in/in                                 | ASTM D995  |
| Melt Flow                   | 9.0 g/10 min<br>@Load 1.20 kg,<br>Temperature 300 Â°C | 9.0 g/10 min<br>@Load 2.65 lb,<br>Temperature 572 Â°F | ASTM D1238 |

| Mechanical Properties     | Metric                                | English                                | Comments                  |
|---------------------------|---------------------------------------|--|---------------------------|
| Hardness, Rockwell R      | 120                                   | 120                                    |                           |
| Tensile Strength at Break | 63.0 MPa                              | 9140 psi                               | ASTM D638                 |
| Elongation at Break       | 120 %                                 | 120 %                                  | ASTM D638                 |
| Flexural Strength         | 85.0 MPa                              | 12300 psi                              | ASTM D790                 |
| Flexural Modulus          | 2.16 GPa                              | 313 ksi                                | ASTM D790                 |
| Izod Impact, Notched      | 8.30 J/cm<br>@Temperature 23.0<br>Â°C | 15.5 ft-lb/in<br>@Temperature 73.4 Â°F | V-Notched 1/8"; ASTM D256 |

| Thermal Properties          | Metric                    | English                     | Comments  |
|-----------------------------|---------------------------|-----------------------------|-----------|
| Heat Distortion Temperature | 134 Â°C                   | 273 Â°F                     | ASTM D648 |
| Flammability, UL94          | V-2<br>@Thickness 1.60 mm | V-2<br>@Thickness 0.0630 in |           |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
|--------------------|--------|---------|----------|

| Optical Properties    | Metric                         | English                         | Comments   |
|-----------------------|--------------------------------|---------------------------------|------------|
| Haze                  | <= 1.0 %<br>@Thickness 3.00 mm | <= 1.0 %<br>@Thickness 0.118 in | ASTM D1003 |
| Transmission, Visible | 89 %<br>@Thickness 3.00 mm     | 89 %<br>@Thickness 0.118 in     | ASTM D1003 |

| Electrical Properties | Metric                          | English                         | Comments  |
|-----------------------|---------------------------------|---------------------------------|-----------|
| Volume Resistivity    | 1.00e+16 ohm-cm                 | 1.00e+16 ohm-cm                 | ASTM D257 |
| Dielectric Constant   | 2.9<br>@Frequency 1.00e+6 Hz    | 2.9<br>@Frequency 1.00e+6 Hz    | ASTM D150 |
| Dielectric Strength   | 20.0 kV/mm                      | 508 kV/in                       | ASTM D149 |
| Dissipation Factor    | 0.0090<br>@Frequency 1.00e+6 Hz | 0.0090<br>@Frequency 1.00e+6 Hz | ASTM D150 |
| Arc Resistance        | 110 sec                         | 110 sec                         | ASTM D495 |

## Contact Songhan Plastic Technology Co.,Ltd.

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