

Kotec Carbotex K-20 Polycarbonate, General Purpose

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Features: Standard, High flow, Transparent Applications: OA equipment, Communications, Precision parts, Machineries, 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-20-Polycarbonate-General-Purpose.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|---|---|------------|
| Specific Gravity | 1.20 g/cc | 1.20 g/cc | ASTM D792 |
| Water Absorption | 0.20 % @Temperature 23.0 Â°C, Time 86400 sec | 0.20 % @Temperature 73.4 Â°F, 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 | 20 g/10 min @Load 1.20 kg, Temperature 300 Â°C | 20 g/10 min @Load 2.65 lb, 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 | 7.40 J/cm @Temperature 23.0 Â°C | 13.9 ft-lb/in @Temperature 73.4 Â°F | V-Notched 1/8"; ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|-----------------------------|---------------------------|-----------------------------|-----------|
| Heat Distortion Temperature | 131 Â°C | 268 Â°F | ASTM D648 |
| Flammability, UL94 | V-2 @Thickness 1.60 mm | V-2 @Thickness 0.0630 in | |

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

| Optical Properties | Metric | English | Comments |
|-----------------------|--------------------------------|---------------------------------|------------|
| Haze | <= 1.0 % @Thickness 3.00 mm | <= 1.0 % @Thickness 0.118 in | ASTM D1003 |
| Transmission, Visible | 89 % @Thickness 3.00 mm | 89 % @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 @Frequency 1.00e+6 Hz | 2.9 @Frequency 1.00e+6 Hz | ASTM D150 |
| Dielectric Strength | 20.0 kV/mm | 508 kV/in | ASTM D149 |
| Dissipation Factor | 0.0090 @Frequency 1.00e+6 Hz | 0.0090 @Frequency 1.00e+6 Hz | ASTM D150 |
| Arc Resistance | 110 sec | 110 sec | ASTM D495 |

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