

Kotec Carbotex K-50 Polycarbonate, General Purpose

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Features: Standard, 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-50-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	9.0 g/10 min @Load 1.20 kg, Temperature 300 Â°C	9.0 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	8.30 J/cm @Temperature 23.0 Â°C	15.5 ft-lb/in @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 @Thickness 1.60 mm	V-2 @Thickness 0.0630 in	

Optical Properties	Metric	English	Comments
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Refractive Index Optical Properties	1.59 Metric	1.59 English	ASTM D542 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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