

Kotec Carbotex KG-20F10 Polycarbonate, Wear Resistant, 20% Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 20% Glass Filled

Material Notes:

Features: Glass fiber 20% reinforced, Mold release, Translucent, Dimensional stability, Non-friction 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-KG-20F10-Polycarbonate-Wear-Resistant-20-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 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	0.0030 - 0.0040 cm/cm	0.0030 - 0.0040 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	118 MPa	17100 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Strength	132 MPa	19100 psi	ASTM D790
Flexural Modulus	5.39 GPa	782 ksi	ASTM D790
Izod Impact, Notched	0.780 J/cm @Temperature 23.0 Â°C	1.46 ft-lb/in @Temperature 73.4 Â°F	V-Notched 1/8"; ASTM D256

Thermal Properties	Metric	English	Comments
Heat Distortion Temperature	145 Â°C	293 Â°F	ASTM D648
Flammability, UL94	V-0 @Thickness 1.70 mm	V-0 @Thickness 0.0669 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
	3.2	3.2	

Electrical Properties	Metric @Frequency 1.00e+6 Hz	English @Frequency 1.00e+6 Hz	Comments
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D149
Dissipation Factor	0.00080 @Frequency 1.00e+6 Hz	0.00080 @Frequency 1.00e+6 Hz	ASTM D150
Arc Resistance	110 sec	110 sec	ASTM D495

Descriptive Properties	Value	Comments
Light Transmittance	Translucent	3.0mm, ASTM D1003

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