

Kotec Carbotex K-30F5 Polycarbonate, Wear Resistant

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Features: Wear resistance, Translucent 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-30F5-Polycarbonate-Wear-Resistant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 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

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	62.0 MPa	8990 psi	ASTM D638
Elongation at Break	100 %	100 %	ASTM D638
Flexural Strength	84.0 MPa	12200 psi	ASTM D790
Flexural Modulus	2.10 GPa	305 ksi	ASTM D790
Izod Impact, Notched	1.50 J/cm @Temperature 23.0 Â°C	2.81 ft-lb/in @Temperature 73.4 Â°F	V-Notched 1/8"; ASTM D256

Thermal Properties	Metric	English	Comments
Heat Distortion Temperature	132 Â°C	270 Â°F	ASTM D648
Flammability, UL94	V-2 @Thickness 1.60 mm	V-2 @Thickness 0.0630 in	

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 Electrical Properties	20.0 kV/mm Metric	508 kV/in English	ASTM D149 Comments
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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