

Kotec Carbotex K-75E Polycarbonate, Extrusion Grade

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Features: Extrusion, High viscosity, Natural transparent Applications: Sheets Films Information provided by Kotec Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kotec-Carbotex-K-75E-Polycarbonate-Extrusion-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Water Absorption	0.20 %	0.20 %	ASTM D570
	@Temperature 23.0 Â°C, Time 86400 sec	@Temperature 73.4 Â°F, Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D995
Melt Flow	4.0 g/10 min	4.0 g/10 min	ASTM D1238
	@Load 1.20 kg, Temperature 300 Â°C	@Load 2.65 lb, Temperature 572 Â°F	

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	88.0 MPa	12800 psi	ASTM D790
Flexural Modulus	2.26 GPa	328 ksi	ASTM D790
Izod Impact, Notched	8.80 J/cm	16.5 ft-lb/in	V-Notched 1/8"; ASTM D256
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Heat Distortion Temperature	135 Â°C	275 Â°F	ASTM D648
Flammability, UL94	V-2	V-2	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Optical Properties	Metric	English	Comments
Refractive Index	1.58	1.58	ASTM D542

Optical Properties	Metric	English	Comments
Haze	@Thickness 3.00 mm	@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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