

Carbotex K-40

Polycarbonate
Kotec Corporation

Message:

Carbotex K-40 is a Polycarbonate (PC) product. It can be processed by injection molding and is available in Africa & Middle East, Europe, Latin America, or North America.
Characteristics include:
Flame Rated
Medium Viscosity

General Information			
UL YellowCard	E146413-223401		
Features	General Purpose		
	Medium Viscosity		
Uses	General Purpose		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Water Absorption (23°C, 24 hr)	< 0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	63.0	MPa	ASTM D638
Tensile Elongation (Break)	120	%	ASTM D638
Flexural Modulus	2160	MPa	ASTM D790
Flexural Strength	85.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	830	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	133	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength (1.60 mm)	20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	2.90		ASTM D150
Dissipation Factor (1 MHz)	9.0E-3		ASTM D150
Arc Resistance	110	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-2		UL 94

Optical	Nominal Value	Unit	Test Method
Refractive Index	1.580		ASTM D542
Transmittance (3000 μm)	89.0	%	ASTM D1003
Haze (3000 μm)	< 1.0	%	ASTM D1003

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