

Carbotex KFN-30T12

Polycarbonate
Kotec Corporation

Message:

Carbotex KFN-30T12 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
- Flame Retardant
- Medium Viscosity

General Information			
UL YellowCard	E146413-100225427		
Additive	Flame Retardant		
Features	Flame Retardant		
	General Purpose		
	Medium Viscosity		
Uses	General Purpose		
Appearance	Opaque		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm³	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 (1.50 mm)	V-0		UL 94
Optical	Nominal Value		Test Method
Transmittance (3.00 mm)	Opaque		ASTM D1003

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