

Carbotex KGN-20MRA

Polycarbonate
Kotec Corporation

Message:

Carbotex KGN-20MRA is a Polycarbonate (PC) product filled with 20% glass fiber. It is available in Africa & Middle East, Europe, Latin America, or North America.

Characteristics include:

- Flame Rated
- Flame Retardant
- Good Mold Release
- High Viscosity
- Mold Release Agent

General Information			
UL YellowCard	E146413-223410		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Flame Retardant		
	Mold Release		
Features	Flame Retardant		
	Good Mold Release		
	High Viscosity		
Appearance	Natural Color		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.30 to 0.50	%	ASTM D955
Water Absorption (23°C, 24 hr)	< 0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	108	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	5690	MPa	ASTM D790
Flexural Strength	152	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	90	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	145	°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)	3.20		ASTM D150

Dissipation Factor (1 MHz)	8.0E-3		ASTM D150
Arc Resistance	110	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.70 mm)	V-0		UL 94
Optical	Nominal Value		Test Method
Haze (3.00 mm)	Translucent		ASTM D1003

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