

Electrafil® PC FR BK

Polycarbonate
Techmer Engineered Solutions

Message:

Electrafil® PC FR BK is a Polycarbonate (PC) product. It can be processed by injection molding and is available in North America.

Characteristics include:

- Flame Rated
- Conductive
- Flame Retardant

General Information			
Features	Flame Retardant		
	Statically Conductive		
UL File Number	E157318		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	70.3	MPa	ASTM D638
Tensile Elongation (Yield)	5.0	%	ASTM D638
Flexural Modulus	2760	MPa	ASTM D790
Flexural Strength	86.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	91	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	1100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	146	°C	
1.8 MPa, Unannealed	141	°C	
CLTE - Flow	5.8E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+11	ohms	ASTM D257
Volume Resistivity	1.0E+12	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	V-0		UL 94

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Recommended distributors for this material

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