

Electrafil® PVDF C BK

Polyvinylidene Fluoride

Techmer Engineered Solutions

Message:

Electrafil® PVDF C BK is a Polyvinylidene Fluoride (PVDF) product. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated

Conductive

General Information			
Features	Conductive		
Appearance	Black		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.83	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/1.05 kg)	2.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	2.8	%	ASTM D955
Water Absorption (24 hr)	0.020	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	55		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	34.5	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	1930	MPa	ASTM D790
Flexural Strength (Yield)	62.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	132	°C	
1.8 MPa, Unannealed	110	°C	
CLTE - Flow	1.2E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	10 to 1.0E+2	ohms · cm	ASTM D257
Dielectric Strength ¹	12	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-0		UL 94
NOTE			

1. Method A (Short-Time)

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Recommended distributors for this material

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