

Electrafil® PC C-3 BK

Polycarbonate

Techmer Engineered Solutions

Message:

Electrafil® PC C- 3 BK is a polycarbonate (PC) product that contains fillers. It can be processed by injection molding and is available in North America.

Features include:

flame retardant/rated flame

Conductivity

General Information			
Filler / Reinforcement	Filler		
Features	Static conduction		
Appearance	Black		
	Available colors		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.60	%	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	112		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	54.5	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	2720	MPa	ASTM D790
Flexural Strength			ASTM D790
--	103	MPa	ASTM D790
Yield	103	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	129	°C	ASTM D648
CLTE - Flow	2.5E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+5 - 1.0E+7	ohms	ASTM D257
Volume Resistivity	1.0E+5 - 1.0E+7	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94

1.50 mm	V-2	UL 94
3.00 mm	V-0	UL 94
Injection	Nominal Value	Unit
Drying Temperature	121	°C
Drying Time	2.0 - 4.0	hr
Suggested Max Moisture	0.10	%
Rear Temperature	302 - 316	°C
Middle Temperature	316 - 332	°C
Front Temperature	310 - 327	°C
Nozzle Temperature	310 - 327	°C
Processing (Melt) Temp	304 - 327	°C
Mold Temperature	71.1 - 87.8	°C
Injection Rate	Moderate	
Back Pressure	0.00 - 0.689	MPa

Injection instructions

Screw Speed: Medium Recommendations for Molding and Tool Conditions: Well vented mold Moisture Content, as received: Product is packaged at 0.2% or less.

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