

## Electrafil® PC CF15 BK

Techmer Polymer Modifiers - *Polycarbonate*

### General Information

#### General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Carbon Fiber, 15% Filler by Weight
Features	• Antistatic • Electrically Conductive
Uses	• Automotive Electronics • Business Equipment • Packaging • Bushings • Conveyor Parts
RoHS Compliance	• RoHS Compliant
Appearance	• Colors Available • Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

### Properties <sup>1</sup>

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.24		ASTM D792
Molding Shrinkage - Flow (0.125 in)	1.5E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.15	%	ASTM D570
<b>Mechanical</b>			
Tensile Modulus (73°F)	1.41E+6	psi	ASTM D638
Tensile Strength (73°F)	17500	psi	ASTM D638
Tensile Elongation (Break, 73°F)	2.0	%	ASTM D638
Flexural Modulus (73°F)	1.60E+6	psi	ASTM D790
Flexural Strength (73°F)	25000	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (73°F, 0.125 in)	1.1	ft·lb/in	ASTM D256
<b>Thermal</b>			
Deflection Temperature Under Load (66 psi, Unannealed)	295	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	288	°F	ASTM D648
CLTE - Flow	1.8E-5	in/in/°F	ASTM D696
<b>Electrical</b>			
Surface Resistivity	1.0E+2 to 5.5E+5	ohms	ASTM D257
Volume Resistivity	1.0E+2 to 1.0E+5	ohms·cm	ASTM D257

### Processing Information

	Nominal Value	Unit
<b>Injection</b>		
Drying Temperature	250	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.10	%
Rear Temperature	575 to 600	°F
Middle Temperature	600 to 630	°F
Front Temperature	590 to 620	°F
Nozzle Temperature	590 to 620	°F
Processing (Melt) Temp	580 to 620	°F
Mold Temperature	160 to 190	°F
Injection Rate	Moderate	
Back Pressure	0.00 to 100	psi

#### Injection Notes



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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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### Notes

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<sup>1</sup> Typical properties: these are not to be construed as specifications.

