

**Electrafil® J-50/CF/30/TF/15**

 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, 30% Filler by Weight
Additive	• PTFE Lubricant: 15%
Features	• Antistatic • Electrically Conductive • Lubricated
Uses	• Automotive Electronics • Business Equipment • Packaging • Bushings • Conveyor Parts
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

**Properties <sup>1</sup>**

<b>Physical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Density / Specific Gravity	1.42		ASTM D792
Molding Shrinkage - Flow (0.125 in)	1.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.12	%	ASTM D570
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Strength (73°F)	17000	psi	ASTM D638
Tensile Elongation (Break, 73°F)	1.7	%	ASTM D638
Flexural Modulus (73°F)	2.00E+6	psi	ASTM D790
Flexural Strength (73°F)	28000	psi	ASTM D790
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact (73°F, 0.125 in)	1.5	ft-lb/in	ASTM D256
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (66 psi, Unannealed)	300	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	290	°F	ASTM D648
CLTE - Flow	1.0E-5	in/in/°F	ASTM D696
<b>Electrical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Surface Resistivity	5.5E+3	ohms	ASTM D257
Volume Resistivity	55	ohms·cm	ASTM D257
<b>Additional Information</b>			
Surface Resistivity, ASTM D257: 1E3-1E4 ohms			
Volume Resistivity, ASTM C611: 10-100 ohm-cm			

**Processing Information**

<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>
Drying Temperature	250	°F
Drying Time	8.0	hr
Suggested Max Moisture	0.030	%
Rear Temperature	575 to 590	°F
Middle Temperature	590 to 620	°F
Front Temperature	600 to 620	°F
Nozzle Temperature	590 to 610	°F
Processing (Melt) Temp	580 to 610	°F
Mold Temperature	180 to 200	°F
Injection Rate	Moderate	



---

Back Pressure

0.00 to 25.0 psi

---

**Injection Notes**

---

Screw Speed: Medium

Recommendations for Molding and Tool Conditions: Well vented mold

Moisture Content, as received: Product is packaged at 0.2% or less.

---

**Notes**

---

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

---

