

Electrafil® J-1/CF/30/TF/13/SI/2

 Techmer Polymer Modifiers - *Polyamide 66*
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: 13% • Silicone Lubricant: 2%
Features	• Lubricated
Uses	• Automotive Electronics • Business Equipment • Packaging • Bushings • Conveyor Parts
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.36		ASTM D792
Molding Shrinkage - Flow (0.125 in)	1.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.60	%	ASTM D570
Mechanical			
Tensile Strength (73°F)	28000	psi	ASTM D638
Tensile Elongation (Break, 73°F)	2.5	%	ASTM D638
Flexural Modulus (73°F)	2.20E+6	psi	ASTM D790
Flexural Strength (73°F)	40000	psi	ASTM D790
Compressive Strength	25000	psi	ASTM D695
Impact			
Notched Izod Impact (73°F, 0.125 in)	1.8	ft-lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (66 psi, Unannealed)	500	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	485	°F	ASTM D648
CLTE - Flow	8.0E-6	in/in/°F	ASTM D696
Electrical			
Surface Resistivity	5.5E+2	ohms	ASTM D257
Volume Resistivity	5.5	ohms-cm	ASTM D257
Flammability			
Flame Rating	HB		UL 94

Additional Information

Compressive Strength, ASTM D695, 73°F: 25000 psi
 Surface Resistivity, ASTM D257: 1E2-1E3 ohm
 Volume Resistivity, ASTM C611: 1-10 ohm-cm

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	180	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.10	%
Rear Temperature	550 to 570	°F
Middle Temperature	560 to 580	°F
Front Temperature	540 to 560	°F



Nozzle Temperature	530 to 550 °F
Processing (Melt) Temp	560 to 580 °F
Mold Temperature	175 to 220 °F
Injection Rate	Moderate
Back Pressure	50.0 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

¹ Typical properties: these are not to be construed as specifications.

