

**Electrafil® PBT 03003**

 Techmer Polymer Modifiers - *Polybutylene Terephthalate*
**General Information**
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Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber
Features	• Antistatic • ESD Protection • Statically Conductive
Appearance	• Colors Available
Forms	• Pellets
Processing Method	• Injection Molding

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

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.43		ASTM D792
Molding Shrinkage - Flow (0.125 in)	4.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.12	%	ASTM D570
<b>Mechanical</b>			
Tensile Strength (Yield)	20500	psi	ASTM D638
Tensile Elongation (Break)	1.0	%	ASTM D638
Flexural Modulus	2.30E+6	psi	ASTM D790
Flexural Strength	30000	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 (264 psi, Unannealed)	419	°F	ASTM D648
CLTE - Flow	2.2E-5	in/in/°F	ASTM D696
<b>Electrical</b>			
Surface Resistivity	1.0E+6 to 1.0E+9	ohms	ASTM D257
Volume Resistivity	1.0E+6 to 1.0E+9	ohms·cm	ASTM D257
Static Decay	< 2.0	sec	MIL PRF-81705D
<b>Flammability</b>			
Flame Rating (0.06 in)	HB		UL 94

**Processing Information**

	Nominal Value	Unit
<b>Injection</b>		
Drying Temperature	250	°F
Drying Time	4.0	hr
Rear Temperature	450 to 525	°F
Middle Temperature	450 to 525	°F
Front Temperature	450 to 525	°F
Processing (Melt) Temp	450 to 475	°F
Mold Temperature	150 to 180	°F
Back Pressure	50.0 to 100	psi
Screw Speed	30 to 60	rpm

