

## Electrafil® PA6/6 03001

Techmer Polymer Modifiers - Polyamide 66

### General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Carbon Fiber
Additive	• Heat Stabilizer • Impact Modifier
Features	• Conductive • Heat Stabilized • High Impact Resistance
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

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

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.19		ASTM D792
Molding Shrinkage - Flow (0.125 in)	0.010	in/in	ASTM D955
Water Absorption (24 hr)	0.90	%	ASTM D570
<b>Mechanical</b>			
Tensile Strength (Yield)	17500	psi	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	1.20E+6	psi	ASTM D790
Flexural Strength	24000	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (73°F, 0.125 in)	3.6	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.150 in)	19	ft·lb/in	ASTM D4812
<b>Hardness</b>			
Rockwell Hardness (R-Scale)	111		ASTM D785
<b>Thermal</b>			
Deflection Temperature Under Load (66 psi, Unannealed)	485	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	428	°F	ASTM D648
CLTE - Flow	2.2E-5	in/in/°F	ASTM D696
<b>Electrical</b>			
Surface Resistivity	1.0E+4 to 1.0E+6	ohms	ASTM D257
Volume Resistivity	1.0E+4 to 1.0E+6	ohms·cm	ASTM D257

### Processing Information

	Nominal Value	Unit
<b>Injection</b>		
Drying Temperature	180	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.10	%
Rear Temperature	510 to 530	°F
Middle Temperature	530 to 550	°F
Front Temperature	520 to 540	°F
Nozzle Temperature	520 to 540	°F
Processing (Melt) Temp	530 to 550	°F
Mold Temperature	175 to 220	°F
Injection Rate	Slow-Moderate	
Back Pressure	0.00 to 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.

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