

**Electrafil® PP 14044 GF20 MB**

 Techmer Polymer Modifiers - *Polypropylene*
**General Information**
**General**

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Additive	• Flame Retardant
Features	• Flame Retardant
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	1.61		ASTM D792
Molding Shrinkage - Flow (0.125 in)	5.0E-3 to 0.010	in/in	ASTM D955
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Modulus	900000	psi	ASTM D638
Tensile Strength (Yield)	6500	psi	ASTM D638
Tensile Elongation (Break)	1.8	%	ASTM D638
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact (0.125 in)	1.4	ft-lb/in	ASTM D256
<b>Electrical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Surface Resistivity	< 1.0E+4	ohms	ASTM D257
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating (0.06 in)	V-0		UL 94

**Processing Information**

<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>
Drying Temperature	150	°F
Drying Time	1.0 to 2.0	hr
Rear Temperature	420 to 480	°F
Middle Temperature	430 to 490	°F
Front Temperature	440 to 500	°F
Nozzle Temperature	450 to 510	°F
Processing (Melt) Temp	430 to 510	°F
Mold Temperature	50 to 150	°F
Injection Rate	Slow	
Back Pressure	0.00 to 50.0	psi
Screw Speed	Slow	

**Notes**

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

