

**HiFill FR® PP GF20 CC FR BK**

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

<b>General</b>	
Material Status	<ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>
Availability	<ul style="list-style-type: none"> <li>North America</li> </ul>
Filler / Reinforcement	<ul style="list-style-type: none"> <li>Glass Fiber, 20% Filler by Weight</li> </ul>
Additive	<ul style="list-style-type: none"> <li>Flame Retardant</li> </ul>
Features	<ul style="list-style-type: none"> <li>Flame Retardant</li> </ul>
Appearance	<ul style="list-style-type: none"> <li>Black</li> </ul>
Processing Method	<ul style="list-style-type: none"> <li>Injection Molding</li> </ul>

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

<b>Physical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Density / Specific Gravity	1.44		ASTM D792
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Modulus	850000	psi	ASTM D638
Tensile Strength (Yield)	9000	psi	ASTM D638
Tensile Elongation (Break)	3.5	%	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>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	180	°F
Rear Temperature	440 to 480	°F
Middle Temperature	450 to 500	°F
Front Temperature	460 to 500	°F
Nozzle Temperature	450 to 490	°F
Processing (Melt) Temp	475 to 535	°F
Mold Temperature	45 to 65	°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.

