

**HiFill® PVDF CF20 BK**

 Techmer Polymer Modifiers - *Polyvinylidene Fluoride*
**General Information**
**General**

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>Carbon Fiber</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>**

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.79		ASTM D792
Molding Shrinkage - Flow (0.125 in)	3.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.020	%	ASTM D570
<b>Mechanical</b>			
Tensile Strength	17500	psi	ASTM D638
Tensile Elongation (Yield)	1.5	%	ASTM D638
Flexural Modulus	1.70E+6	psi	ASTM D790
Flexural Strength	25000	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (73°F, 0.125 in)	1.8	ft·lb/in	ASTM D256
<b>Hardness</b>			
Rockwell Hardness (R-Scale)	106		ASTM D785
<b>Thermal</b>			
Deflection Temperature Under Load (264 psi, Unannealed)	335	°F	ASTM D648
CLTE - Flow	2.5E-5	in/in/°F	ASTM D696
<b>Electrical</b>			
Volume Resistivity	1.0E+2 to 1.0E+6	ohms·cm	ASTM D257
<b>Flammability</b>			
Flame Rating (0.03 in)	V-0		UL 94

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