

**InElec® PCCF10TF10VHFMR**

Americhem - Polycarbonate

**General Information**
**Product Description**

10% CARBON FIBER REINFORCED, 10% PTFE LUBRICATED, VERY HIGH FLOW, POLYCARBONATE

**General**

Material Status	<ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>		
Availability	<ul style="list-style-type: none"> <li>Africa &amp; Middle East</li> <li>Asia Pacific</li> </ul>	<ul style="list-style-type: none"> <li>Europe</li> <li>Latin America</li> </ul>	<ul style="list-style-type: none"> <li>North America</li> </ul>
Filler / Reinforcement	<ul style="list-style-type: none"> <li>Carbon Fiber, 10% Filler by Weight</li> </ul>		
Additive	<ul style="list-style-type: none"> <li>Mold Release</li> </ul>	<ul style="list-style-type: none"> <li>PTFE Lubricant: 10%</li> </ul>	
Features	<ul style="list-style-type: none"> <li>Chemical Resistant</li> <li>Filled</li> <li>Good Dimensional Stability</li> <li>Good Mold Release</li> </ul>	<ul style="list-style-type: none"> <li>High Flow</li> <li>High Stiffness</li> <li>High Strength</li> <li>Lubricated</li> </ul>	<ul style="list-style-type: none"> <li>Permanent Antistatic</li> <li>Wear Resistant</li> </ul>
Uses	<ul style="list-style-type: none"> <li>Automotive Applications</li> <li>Closures</li> <li>Connectors</li> <li>Consumer Applications</li> </ul>	<ul style="list-style-type: none"> <li>Electrical/Electronic Applications</li> <li>Engineering Parts</li> <li>Household Goods</li> <li>Housings</li> </ul>	<ul style="list-style-type: none"> <li>Industrial Applications</li> <li>Industrial Parts</li> <li>Office Automation Equipment</li> </ul>
Forms	<ul style="list-style-type: none"> <li>Pellets</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	1.30		ASTM D792
Molding Shrinkage - Flow	2.0E-3 to 3.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
<b>Mechanical</b>			
Tensile Strength	15000	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 4.0	%	ASTM D638
Flexural Modulus	860000	psi	ASTM D790
Flexural Strength	20500	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (0.125 in)	1.4	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	11	ft·lb/in	ASTM D4812
<b>Thermal</b>			
Deflection Temperature Under Load (264 psi, Unannealed)	280	°F	ASTM D648
<b>Electrical</b>			
Surface Resistivity	1.0E+2 to 1.0E+6	ohms	ASTM D257

**Processing Information**

	Nominal Value	Unit
<b>Injection</b>		
Drying Temperature	250	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.020	%
Processing (Melt) Temp	540 to 600	°F
Mold Temperature	200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

