

**InStruc® PCPBTGF30**
*Americhem - Polycarbonate + PBT*
**General Information**
**Product Description**

30% GLASS FIBER REINFORCED POLYCARBONATE/PBT ALLOY

**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> <li>Europe</li> <li>Latin America</li> <li>North America</li> </ul>
Filler / Reinforcement	<ul style="list-style-type: none"> <li>Glass Fiber, 30% Filler by Weight</li> </ul>
Features	<ul style="list-style-type: none"> <li>Filled</li> <li>Good Dimensional Stability</li> <li>High Stiffness</li> <li>High Strength</li> </ul>
Uses	<ul style="list-style-type: none"> <li>Automotive Applications</li> <li>Closures</li> <li>Connectors</li> <li>Consumer Applications</li> <li>Electrical/Electronic Applications</li> <li>Engineering Parts</li> <li>Household Goods</li> <li>Housings</li> <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	1.48		ASTM D792
Water Absorption (Equilibrium)	0.060	%	ASTM D570
<b>Mechanical</b>			
Tensile Strength	17700	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	1.35E+6	psi	ASTM D790
Flexural Strength	26500	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact	2.3	ft·lb/in	ASTM D256
Unnotched Izod Impact	12 to 14	ft·lb/in	ASTM D4812
<b>Thermal</b>			
Deflection Temperature Under Load (264 psi, Unannealed)	290	°F	ASTM D648
<b>Electrical</b>			
Volume Resistivity	> 1.0E+17	ohms·cm	ASTM D257

**Processing Information**

	Nominal Value	Unit
<b>Injection</b>		
Drying Temperature	230	°F
Drying Time	3.0 to 4.0	hr
Processing (Melt) Temp	510 to 530	°F
Mold Temperature	150 to 200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

