

InStruc® PCPBTGF10
Americhem - Polycarbonate + PBT
General Information
Product Description

10% GLASS FIBER REINFORCED POLYCARBONATE/PBT ALLOY

General

Material Status	• Commercial: Active
Availability	<ul style="list-style-type: none"> • Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Features	<ul style="list-style-type: none"> • Filled • Good Dimensional Stability • High Stiffness • High Strength
Uses	<ul style="list-style-type: none"> • Automotive Applications • Closures • Connectors • Consumer Applications • Electrical/Electronic Applications • Engineering Parts • Household Goods • Housings • Industrial Applications • Industrial Parts • Office Automation Equipment
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.31		ASTM D792
Molding Shrinkage - Flow	3.0E-3 to 5.0E-3	in/in	ASTM D955
Water Absorption (Equilibrium)	0.70	%	ASTM D570
Mechanical			
Tensile Strength	11500	psi	ASTM D638
Tensile Elongation (Yield)	3.0 to 5.0	%	ASTM D638
Flexural Modulus	700000	psi	ASTM D790
Flexural Strength	18500	psi	ASTM D790
Impact			
Notched Izod Impact	2.5	ft-lb/in	ASTM D256
Unnotched Izod Impact	14 to 16	ft-lb/in	ASTM D4812
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	280	°F	ASTM D648
Electrical			
Volume Resistivity	> 1.0E+17	ohms·cm	ASTM D257

Processing Information

	Nominal Value	Unit
Injection		
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

