

InStruc® PCPBTGF30IM
Americhem - Polycarbonate + PBT
General Information
Product Description

30% GLASS FIBER REINFORCED, IMPACT MODIFIED POLYCARBONATE/PBT ALLOY

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Additive	• Impact Modifier		
Features	• Filled • Good Dimensional Stability • High Impact Resistance	• High Stiffness • High Strength • Impact Modified	• Low Temperature Toughness
Uses	• 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	1.44		ASTM D792
Molding Shrinkage - Flow (0.125 in)	3.0E-3 to 4.0E-3	in/in	ASTM D955
Water Absorption (Equilibrium)	0.090	%	ASTM D570
Mechanical			
Tensile Modulus	350000	psi	ASTM D638
Tensile Strength	14000	psi	ASTM D638
Tensile Elongation (Yield)	3.0 to 4.0	%	ASTM D638
Flexural Modulus	775000	psi	ASTM D790
Flexural Strength	15500	psi	ASTM D790
Impact			
Notched Izod Impact	3.1	ft·lb/in	ASTM D256
Unnotched Izod Impact	12	ft·lb/in	ASTM D4812
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	325	°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 180	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

