

InStruc® PBTGF30UVMR
Americhem - Polybutylene Terephthalate
General Information
Product Description

30% GLASS FIBER REINFORCED, UV STABILIZED, MOLD RELEASE POLYBUTYLENE TEREPHTHALATE (PBT)

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Additive	• Mold Release	• UV Stabilizer	
Features	• Filled	• High Stiffness	• UV Stabilized
	• Good Dimensional Stability	• High Strength	
	• Good Mold Release	• Lubricated	
Uses	• Automotive Applications	• Electrical/Electronic Applications	• Industrial Applications
	• Battery Cases	• Engineering Parts	• Industrial Parts
	• Connectors	• Household Goods	• Outdoor Applications
	• Consumer Applications	• Housings	• Semiconductor Applications
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.53		ASTM D792
Molding Shrinkage - Flow	2.0E-3 to 4.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.060	%	ASTM D570
Mechanical			
Tensile Modulus	1.40E+6	psi	ASTM D638
Tensile Strength	18000	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 4.0	%	ASTM D638
Flexural Modulus	1.35E+6	psi	ASTM D790
Flexural Strength	25500	psi	ASTM D790
Impact			
Notched Izod Impact (0.125 in)	1.8	ft·lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	415	°F	ASTM D648

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	230	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.030	%
Processing (Melt) Temp	470 to 520	°F
Mold Temperature	180 to 225	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

