

InStruc® PCPETGF20IM
Americhem - Polycarbonate + PET
General Information
Product Description

20% GLASS FIBER REINFORCED POLYCARBONATE/PET ALLOY BASED UPON FDA APPROVED RESINS

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 20% 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
Agency Ratings	• FDA		
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.48		ASTM D792
Molding Shrinkage - Flow (0.125 in)	2.0E-3 to 4.0E-3	in/in	
Mechanical			
Tensile Strength (Break)	17700	psi	ASTM D638
Tensile Elongation (Break)	2.0 to 4.0	%	ASTM D638
Flexural Modulus	1.50E+6	psi	ASTM D790
Impact			
Notched Izod Impact	2.3	ft·lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	290	°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

