

InStruc® PEGF10

Americhem - Polyethylene

General Information
Product Description

10% GLASS FIBER REINFORCED POLYETHYLENE

General

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

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.02		ASTM D792
Molding Shrinkage - Flow (0.125 in)	5.0E-3 to 9.0E-3	in/in	ASTM D955
Water Absorption (Equilibrium)	0.030	%	ASTM D570
Mechanical			
Tensile Strength	5300	psi	ASTM D638
Flexural Modulus	250000	psi	ASTM D790
Flexural Strength	7800	psi	ASTM D790
Impact			
Notched Izod Impact	1.0	ft-lb/in	ASTM D256
Unnotched Izod Impact	9.0 to 11	ft-lb/in	ASTM D4812
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	185	°F	ASTM D648
Electrical			
Surface Resistivity	1.0E+18	ohms	ASTM D257

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	170	°F
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	430	°F
Mold Temperature	80 to 120	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

