

InStruc® PVDFCF15
Americhem - Polyvinylidene Fluoride
General Information
Product Description

15% CARBON FIBER REINFORCED PVDF

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"> Carbon Fiber, 15% 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"> Connectors Consumer Applications Electrical/Electronic Applications Engineering Parts 	<ul style="list-style-type: none"> Housings Industrial Applications Industrial Parts Metal Replacement 	<ul style="list-style-type: none"> Oil/Gas Applications Pump Parts
Forms	<ul style="list-style-type: none"> Pellets 		
Processing Method	<ul style="list-style-type: none"> Injection Molding 		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.76		ASTM D792
Molding Shrinkage - Flow (0.125 in)	2.0E-3 to 6.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	14100	psi	ASTM D638
Tensile Elongation (Yield)	1.0 to 3.0	%	ASTM D638
Flexural Modulus	1.15E+6	psi	ASTM D790
Flexural Strength	19500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	1.5	ft·lb/in	ASTM D256
Unnotched Izod Impact	8.0 to 10	ft·lb/in	ASTM D4812
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 to 1.0E+7	ohms	ASTM D257

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	250	°F
Drying Time	4.0	hr
Processing (Melt) Temp	420 to 450	°F
Mold Temperature	150 to 200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

Notes
¹ Typical properties: these are not to be construed as specifications.
