

InStruc® ETFEGF25

Americhem - Ethylene Tetrafluoroethylene Copolymer

General Information

Product Description

25% GLASS FIBER REINFORCED ETFE

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight		
Features	• Filled • Good Dimensional Stability	• High Stiffness • High Strength	• Wear Resistant
Uses	• Consumer Applications • Electrical/Electronic Applications • Engineering Parts • Housings	• HVAC Applications • Industrial Applications • Industrial Parts • Metal Replacement	• Oil/Gas Applications • Pump Parts
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.85		ASTM D792
Molding Shrinkage - Flow (0.125 in)	4.0E-3 to 6.0E-3	in/in	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.20E+6	psi	ASTM D638
Tensile Strength (Yield)	5200	psi	ASTM D638
Tensile Elongation (Yield)	1.5 to 2.0	%	ASTM D638
Flexural Modulus	1.00E+6	psi	ASTM D790
Flexural Strength	7500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	4.0	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	410	°F	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	ASTM D257
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	410	V/mil	ASTM D149
Dielectric Constant			ASTM D150
100 Hz	3.40		
1 MHz	3.41		
Dissipation Factor			ASTM D150
100 Hz	3.0E-3		
1 MHz	8.0E-3		

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	250	°F
Drying Time	4.0	hr
Processing (Melt) Temp	600	°F
Mold Temperature	250	°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.	

