

InStruc® PA66PA6IGF40

Americhem - Polyamide 66 + PA 6I/6T

General Information

Product Description

40% GLASS FIBER REINFORCED, NYLON 6/6 + NYLON 6I/6T

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight		
Features	• Filled • Good Dimensional Stability	• High Stiffness • High Strength	
Uses	• Closures • Consumer Applications • Electrical/Electronic Applications • Engineering Parts	• Household Goods • Industrial Applications • Industrial Parts • Office Automation Equipment	• Outdoor Applications • Window & Door Components
Forms	• Pellets		
Processing Method	• Injection Molding		

 Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.47		ASTM D792
Molding Shrinkage - Flow	4.0E-3 to 6.0E-3	in/in	ASTM D955
Mechanical			
Tensile Modulus	1.80E+6	psi	ASTM D638
Tensile Strength	29500	psi	ASTM D638
Tensile Elongation (Yield)	3.0 to 4.0	%	ASTM D638
Flexural Modulus	1.75E+6	psi	ASTM D790
Flexural Strength	48000	psi	ASTM D790
Impact			
Notched Izod Impact (0.125 in)	2.2	ft·lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	475	°F	ASTM D648
Electrical			
Surface Resistivity	1.0E+17	ohms	

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	175	°F
Drying Time	4.0	hr
Processing (Melt) Temp	520 to 570	°F
Mold Temperature	180 to 250	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

