

**InStruc® PA66GF50UV**

Americhem - Polyamide 66

## General Information

**Product Description**

50% GLASS FIBER REINFORCED, UV-STABILIZED NYLON 6/6

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber, 50% Filler by Weight		
Additive	• UV Stabilizer		
Features	• Filled	• High Stiffness	• UV Stabilized
	• Good Dimensional Stability	• High Strength	
Uses	• Automotive Applications	• Engineering Parts	• Office Automation Equipment
	• Closures	• Household Goods	• Outdoor Applications
	• Consumer Applications	• Industrial Applications	• Window & Door Components
	• Electrical/Electronic Applications	• Industrial Parts	
Forms	• Pellets		
Processing Method	• Injection Molding		

 Properties <sup>1</sup>

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.57		ASTM D792
Molding Shrinkage - Flow	2.0E-3 to 3.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.60	%	ASTM D570
<b>Mechanical</b>			
Tensile Strength	31500	psi	ASTM D638
Tensile Elongation (Yield)	1.0 to 3.0	%	ASTM D638
Flexural Modulus	1.95E+6	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (0.125 in)	2.8	ft-lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	20 to 22	ft-lb/in	ASTM D4812
<b>Thermal</b>			
Deflection Temperature Under Load (264 psi, Unannealed)	490	°F	ASTM D648
<b>Electrical</b>			
Surface Resistivity	> 1.0E+17	ohms	ASTM D257
<b>Flammability</b>			
Flame Rating			UL 94
0.06 in		HB	
0.13 in		HB	

## Processing Information

	Nominal Value	Unit
<b>Injection</b>		
Drying Temperature	175	°F
Drying Time	4.0	hr
Processing (Melt) Temp	510 to 530	°F
Mold Temperature	200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

