

**InStruc® PA612GF10**

Americhem - Polyamide 612

## General Information

**Product Description**

10% GLASS FIBER REINFORCED NYLON 612

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Carbon Fiber, 10% Filler by Weight		
Features	• Filled • Good Dimensional Stability	• High Stiffness • High Strength	
Uses	• Closures • Consumer Applications • Electrical/Electronic Applications • Engineering Parts	• Household Goods • Housings • Industrial Applications • Industrial Parts	• Office Automation Equipment • Outdoor Applications • Window & Door Components
Forms	• Pellets		
Processing Method	• Injection Molding		

 Properties <sup>1</sup>

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.14		ASTM D792
Molding Shrinkage - Flow (0.125 in)	0.010	in/in	ASTM D955
<b>Mechanical</b>			
Tensile Strength	11000	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	500000	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact	1.0	ft-lb/in	ASTM D256
<b>Thermal</b>			
Deflection Temperature Under Load (264 psi, Unannealed)	370	°F	ASTM D648
<b>Electrical</b>			
Surface Resistivity	> 1.0E+17	ohms	ASTM D257

## Processing Information

	Nominal Value	Unit
<b>Injection</b>		
Drying Temperature	180	°F
Drying Time	4.0	hr
Processing (Melt) Temp	460 to 520	°F
Mold Temperature	160 to 200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

## Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.
