

**InStruc® PA66GF15FRHS**

Americhem - Polyamide 66

## General Information

**Product Description**

15% GLASS FIBER REINFORCED, HEAT STABILIZED, FLAME RETARDANT NYLON 6/6

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight		
Additive	• Flame Retardant	• Heat Stabilizer	
Features	• Filled	• Halogenated	• High Strength
	• Flame Retardant	• Heat Stabilized	
	• Good Dimensional Stability	• High Stiffness	
Uses	• Automotive Applications	• Engineering Parts	• Industrial Parts
	• Closures	• Household Goods	• Office Automation Equipment
	• Consumer Applications	• Housings	• Outdoor Applications
	• Electrical/Electronic Applications	• Industrial Applications	• Window & Door Components
Forms	• Pellets		
Processing Method	• Injection Molding		

 Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.55		ASTM D792
Molding Shrinkage - Flow	3.0E-3 to 6.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.80	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.10E+6	psi	ASTM D638
Tensile Strength	13000	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	900000	psi	ASTM D790
Flexural Strength	22000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	0.90	ft-lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	6.0 to 8.0	ft-lb/in	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	475	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in		V-0	
0.12 in		V-0	

## Processing Information

Injection	Nominal Value	Unit
Drying Temperature	175	°F
Drying Time	4.0	hr
Processing (Melt) Temp	500 to 560	°F
Mold Temperature	200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

