

**InStruc® PA66GF25FRHS**

Americhem - Polyamide 66

**General Information**
**Product Description**

25% GLASS FIBER REINFORCED, FLAME RETARDANT, HEAT STABILIZED, NYLON 6/6

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight		
Additive	• Flame Retardant	• Heat Stabilizer	
Features	• Filled • Flame Retardant • Good Dimensional Stability	• Halogenated • Heat Stabilized • High Stiffness	• High Strength
Uses	• Automotive Applications • 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 <sup>1</sup>**

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.54		ASTM D792
Molding Shrinkage - Flow	2.0E-3 to 4.0E-3	in/in	ASTM D955
<b>Mechanical</b>			
Tensile Modulus	1.30E+6	psi	ASTM D638
Tensile Strength	21000	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	1.10E+6	psi	ASTM D790
Flexural Strength	30000	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (0.125 in)	1.5	ft·lb/in	ASTM D256
<b>Thermal</b>			
Deflection Temperature Under Load (264 psi, Unannealed)	475	°F	ASTM D648
<b>Flammability</b>			
Flame Rating (0.06 to 0.12 in, ALL)	V-0		UL 94

**Processing Information**

	Nominal Value	Unit
<b>Injection</b>		
Drying Temperature	175	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.20	%
Processing (Melt) Temp	530 to 570	°F
Mold Temperature	150 to 200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

