

InStruc® PA66GF35HS

Americhem - Polyamide 66

General Information
Product Description

35% GLASS FIBER REINFORCED, 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, 35% Filler by Weight		
Additive	• Impact Modifier		
Features	• Filled • Good Dimensional Stability	• 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 ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.43		ASTM D792
Molding Shrinkage - Flow	2.0E-3 to 4.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.90	%	ASTM D570
Mechanical			
Tensile Modulus	1.60E+6	psi	ASTM D638
Tensile Strength	22000	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 4.0	%	ASTM D638
Flexural Modulus	1.35E+6	psi	ASTM D790
Flexural Strength	34000	psi	ASTM D790
Impact			
Notched Izod Impact (0.125 in)	1.8	ft-lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	14 to 17	ft-lb/in	ASTM D4812
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	490	°F	ASTM D648
Electrical			
Surface Resistivity	> 1.0E+17	ohms	ASTM D257
Flammability			
Flame Rating			UL 94
0.06 in		HB	
0.13 in		HB	

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	175	°F
Drying Time	4.0	hr
Processing (Melt) Temp	500 to 575	°F
Mold Temperature	200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

