

InStruc® PA66GF60HS

Americhem - Polyamide 66

General Information

Product Description

60% GLASS FIBER REINFORCED, HEAT STABILIZED NYLON 6/6

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 60% Filler by Weight
Additive	• Heat Stabilizer
Features	• Filled • Heat Stabilized • High Strength • Good Dimensional Stability • High Stiffness
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 ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.73		ASTM D792
Molding Shrinkage - Flow	2.0E-3 to 3.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.40	%	ASTM D570
Mechanical			
Tensile Modulus	3.00E+6	psi	ASTM D638
Tensile Strength	33000	psi	ASTM D638
Tensile Elongation (Yield)	1.0 to 2.0	%	ASTM D638
Flexural Modulus	2.80E+6	psi	ASTM D790
Flexural Strength	50000	psi	ASTM D790
Impact			
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
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	510 to 530	°F
Mold Temperature	200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

