

InStruc® PA66GF10FRHS

Americhem - Polyamide 66

General Information

Product Description

10% GLASS FIBER REINFORCED, HEAT STABILIZED, FLAME RETARDANT NYLON 6/6

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 10% 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 • Housings • 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	4.0E-3 to 6.0E-3	in/in	ASTM D955
Mechanical			
Tensile Modulus	900000	psi	ASTM D638
Tensile Strength	13000	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	800000	psi	ASTM D790
Flexural Strength	20000	psi	ASTM D790
Impact			
Notched Izod Impact (0.125 in)	0.90	ft·lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	460	°F	ASTM D648
Flammability			
Flame Rating			UL 94
0.06 in	V-0		
0.12 in	V-0		

Processing Information

	Nominal Value	Unit
Injection		
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

