

InStruc® PA66GF15

Americhem - Polyamide 66

General Information
Product Description

15% GLASS FIBER REINFORCED 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		
Features	• Filled	• High Stiffness	
	• Good Dimensional Stability	• High Strength	
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 ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.24		ASTM D792
Molding Shrinkage - Flow	5.0E-3 to 7.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	1.0	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.00E+6	psi	ASTM D638
Tensile Strength	18000	psi	ASTM D638
Tensile Elongation (Yield)	3.0 to 4.0	%	ASTM D638
Flexural Modulus	850000	psi	ASTM D790
Flexural Strength	25000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	1.0	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	9.0	ft·lb/in	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	475	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
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

