InStruc® PA66GF30FR
Americhem - *Polyamide 66*

General Information

Product Description
30% GLASS FIBER REINFORCED, FLAME RETARDANT NYLON 6/6

General

Material Status	• Commercial: Active

Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	

Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Flame Retardant

Features	• Filled	• Good Dimensional Stability	• High Stiffness
	• Flame Retardant	• Halogenated	• High Strength

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]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.55		ASTM D792
Molding Shrinkage - Flow	3.0E-3 to 6.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.80	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.60E+6	psi	ASTM D638
Tensile Strength	21000	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 2.5	%	ASTM D638
Flexural Modulus	1.45E+6	psi	ASTM D790
Flexural Strength	32000	psi	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	1.3	ft·lb/in	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	490	°F	ASTM D648

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in		V-0	
0.12 in	•	V-0	
	•	5VA	

Processing Information

Injection	Nominal Value	Unit
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