

InStruc® PA66GF10IM

Americhem - Polyamide 66

General Information

Product Description

10% GLASS FIBER REINFORCED IMPACT MODIFIED NYLON 6/6

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight		
Additive	• Impact Modifier		
Features	• Filled	• High Stiffness	• Low Temperature Toughness
	• Good Dimensional Stability	• High Strength	
	• High Impact Resistance	• Impact Modified	
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	1.16		ASTM D792
Specific Volume	23.9	in ³ /lb	
Molding Shrinkage - Flow	6.0E-3 to 0.010	in/in	ASTM D955
Water Absorption (24 hr)	1.1	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	10500	psi	ASTM D638
Tensile Elongation (Yield)	8.0 to 9.0	%	ASTM D638
Flexural Modulus	400000	psi	ASTM D790
Flexural Strength	15000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	3.4	ft-lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	14	ft-lb/in	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	460	°F	ASTM D648
CLTE - Flow	3.6E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+17	ohms	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94

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
Vent Depth	5.0E-4 to 1.0E-3	in

