

InStruc® PA6GF25MIN15HSUV

Americhem - Polyamide 6

General Information

Product Description

25% GLASS FIBER REINFORCED, 15% MINERAL FILLED, HEAT AND UV STABILIZED NATURAL NYLON 6

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight		
Additive	• Heat Stabilizer	• UV Stabilizer	
Features	• Filled • Good Dimensional Stability	• Heat Stabilized • High Stiffness	• High Strength • UV Stabilized
Uses	• Automotive Applications • Closures • Consumer Applications • Electrical/Electronic Applications	• Engineering Parts • Household Goods • 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	1.48		ASTM D792
Molding Shrinkage - Flow	3.0E-3 to 4.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.90	%	ASTM D570
Mechanical			
Tensile Modulus	1.50E+6	psi	ASTM D638
Tensile Strength	19000	psi	ASTM D638
Tensile Elongation (Yield)	2.3	%	ASTM D638
Flexural Modulus	1.48E+6	psi	ASTM D790
Flexural Strength	31500	psi	ASTM D790
Impact			
Notched Izod Impact (0.125 in)	1.2	ft-lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	425	°F	ASTM D648
Electrical			
Surface Resistivity	1.0E+13	ohms	ASTM D257
Flammability			
Flame Rating (0.12 in)	HB		Internal Method

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

