

InStruc® PA66GF20

Americhem - Polyamide 66

General Information
Product Description

PA66GF20 is a 20% glass fiber reinforced injection molding grade of Nylon 6/6. It is suitable for a wide range of applications.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Features	• Filled • Good Dimensional Stability • High Stiffness • High Strength
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	1.29		ASTM D792
Molding Shrinkage - Flow	2.0E-3 to 3.5E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.70	%	ASTM D570
Mechanical			
Tensile Strength	18100	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 4.0	%	ASTM D638
Flexural Modulus	1.03E+6	psi	ASTM D790
Flexural Strength	27600	psi	ASTM D790
Impact			
Notched Izod Impact (0.125 in)	1.4	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	13	ft·lb/in	ASTM D4812
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	464	°F	ASTM D648
Electrical			
Surface Resistivity	1.0E+17	ohms	
Flammability			
Flame Rating (0.06 in)	HB		UL 94

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	176	°F
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	536 to 581	°F
Mold Temperature	158 to 230	°F
Back Pressure	< 435	psi
Screw Speed	25 to 50	rpm
Vent Depth	5.0E-4 to 1.0E-3	in

