

**InStruc® PA66GB20**

Americhem - Polyamide 66

**General Information**
**Product Description**

20% GLASS BEAD FILLED NYLON 6/6

**General**

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Bead, 20% Filler by Weight
Features	• Filled • Good Dimensional Stability
Uses	• Automotive Applications • Closures • Consumer Applications • Electrical/Electronic Applications • Engineering Parts • Household Goods • Housings • Industrial Applications • Industrial Parts • Office Automation Equipment • Outdoor Applications • Window & Door Components
Forms	• Pellets
Processing Method	• Injection Molding

**Properties <sup>1</sup>**

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.28		ASTM D792
Molding Shrinkage - Flow	0.015 to 0.020	in/in	ASTM D955
Water Absorption (24 hr)	0.90	%	ASTM D570
<b>Mechanical</b>			
Tensile Modulus	600000	psi	ASTM D638
Tensile Strength	11000	psi	ASTM D638
Tensile Elongation (Yield)	3.0 to 4.0	%	ASTM D638
Flexural Modulus	550000	psi	ASTM D790
Flexural Strength	20000	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (0.125 in)	0.70	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	4.0 to 6.0	ft·lb/in	ASTM D4812
<b>Thermal</b>			
Deflection Temperature Under Load (264 psi, Unannealed)	170	°F	ASTM D648
<b>Electrical</b>			
Surface Resistivity	1.0E+17	ohms	ASTM D257

**Processing Information**

	Nominal Value	Unit
<b>Injection</b>		
Drying Temperature	175	°F
Drying Time	4.0	hr
Processing (Melt) Temp	540 to 575	°F
Mold Temperature	200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

