

InStruc® PA66GB40HS

Americhem - Polyamide 66

General Information
Product Description

InStruc PA66GB40HS is a 40% glass bead filled, heat stabilized Nylon 6/6 that offers good mechanical properties, impact resistance, and flex strength. Easy to process through injection molding, this product is great for use in consumer and automotive products.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Bead, 40% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Filled	• Good Dimensional Stability	• Heat Stabilized
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	1.44		ASTM D792
Molding Shrinkage - Flow	0.013 to 0.017	in/in	ASTM D955
Water Absorption (24 hr)	0.90	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	800000	psi	ASTM D638
Tensile Strength	11000	psi	ASTM D638
Tensile Elongation (Yield)	3.0 to 4.0	%	ASTM D638
Flexural Modulus	700000	psi	ASTM D790
Flexural Strength	19000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	0.70	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	4.6	ft·lb/in	ASTM D4812

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	175	°F
Drying Time	4.0	hr
Processing (Melt) Temp	530 to 575	°F
Mold Temperature	150 to 200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

