

InStruc® PA11GF10MD

Americhem - Polyamide 11

General Information

Product Description

PA11 is a biobased nylon 11 with low moisture absorption and good chemical resistance. It is suitable for wide range of applications.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Carbon Fiber, 10% Filler by Weight		
Features	• Ethylene Oxide Sterilizable • Filled	• Good Dimensional Stability • High Stiffness	• High Strength
Uses	• Closures • Electrical/Electronic Applications • Engineering Parts	• Housings • Industrial Parts • Medical/Healthcare Applications	• Surgical Instruments • Window & Door Components
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.10		ASTM D792
Molding Shrinkage - Flow (0.125 in)	4.0E-3 to 8.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.40	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	370000	psi	ASTM D638
Tensile Strength ² (Yield)	10000	psi	ASTM D638
Tensile Elongation ² (Yield)	5.0	%	ASTM D638
Tensile Elongation (Break)	> 8.0	%	ASTM D638
Flexural Modulus ²	350000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.1	ft-lb/in	ASTM D256

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	175	°F
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	470 to 530	°F

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 in/min

