

InStruc® PPAGF35SI2AMD

Americhem - Polyphthalamide

General Information

Product Description

35% GLASS FIBER REINFORCED, 2% SILICONE LUBRICATED, POLYPHTHALAMIDE (PPA)

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber, 35% Filler by Weight		
Additive	• Silicone Lubricant: 2%		
Features	• Filled	• Heat Stabilized	• High Strength
	• Good Dimensional Stability	• High Stiffness	
Uses	• Connectors	• Engineering Parts	• Medical/Healthcare Applications
	• Electrical/Electronic Applications	• Housings	• Metal Replacement
Forms	• Pellets		
Processing Method	• Injection Molding		

 Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.45		ASTM D792
Molding Shrinkage - Flow	2.0E-3 to 4.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.68E+6	psi	ASTM D638
Tensile Strength	26500	psi	ASTM D638
Tensile Elongation (Yield)	1.0 to 2.0	%	ASTM D638
Flexural Modulus	1.48E+6	psi	ASTM D790
Flexural Strength	41000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	2.9	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	530	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	275	°F
Drying Time	4.0	hr
Processing (Melt) Temp	625	°F
Mold Temperature	275	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm
Vent Depth	5.0E-4 to 1.0E-3	in

