

HiFill® PPA GF30 HS L

Polyphthalamide

Techmer Engineered Solutions

Message:

HiFill® PPA GF30 HS L is a Polyphthalamide (PPA) product filled with 30% glass fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated

Heat Stabilizer

High Strength

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
	High Temperature Strength		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.44	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.50	%	ASTM D955
Water Absorption (24 hr)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	200	MPa	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	10700	MPa	ASTM D790
Flexural Strength	290	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	85	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	301	°C	ASTM D648
CLTE - Flow	2.2E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength ¹	20	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.05 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	104	°C	

Drying Time	4.0 to 8.0	hr
Rear Temperature	327 to 360	°C
Middle Temperature	327 to 360	°C
Front Temperature	327 to 360	°C
Processing (Melt) Temp	316 to 338	°C
Mold Temperature	93.3 to 149	°C
Back Pressure	0.00 to 0.345	MPa
Screw Speed	30 to 60	rpm

NOTE

1.
- Method A (Short-Time)

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Recommended distributors for this material


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