

HiFill® PPA GF35 IM AHWR

Polyphthalamide
Techmer Engineered Solutions

Message:
High Temperature Nylon

General Information			
Filler / Reinforcement	Glass Fiber,35% Filler by Weight		
Features	Heat Stabilized		
	Hot Water Moldability		
	Hydrolysis Resistant		
	Impact Modified		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.42	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.40	%	ASTM D955
Water Absorption (24 hr)	0.18	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	179	MPa	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Modulus	221	MPa	ASTM D790
Flexural Strength	241	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	285	°C	
1.8 MPa, Unannealed	254	°C	
CLTE - Flow	3.4E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	8.0E+15	ohms · cm	ASTM D257
Dielectric Strength ¹	18	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	HB		UL 94
NOTE			
1.	Method A (Short-Time)		

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