

HiFill® PA6/6 GF43 LE BK

Polyamide 66

Techmer Engineered Solutions

Message:

HiFill® PA6/6 GF43 LE BK is a polyamide 66 (nylon 66) product, which contains a 43% glass fiber reinforced material. It can be processed by injection molding and is available in North America. HiFill® The application areas of PA6/6 GF43 LE BK include food contact applications and water pipes/pipes/drinking water.

Features include:

flame retardant/rated flame

Lubrication

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 43% filler by weight		
Additive	Lubricant		
Features	Low extract		
	Lubrication		
Agency Ratings	FDA not rated		
	NSF Not Rated		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30	%	ASTM D955
Water Absorption (24 hr)	0.60	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	208	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	11400	MPa	ASTM D790
Flexural Strength	296	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	140	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	1500	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	259	°C	ASTM D648
1.8 MPa, not annealed	255	°C	ASTM D648
CLTE - Flow	7.4E-5	cm/cm/°C	ASTM D696

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength ¹	20	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.12	%	
Rear Temperature	282 - 293	°C	
Middle Temperature	288 - 299	°C	
Front Temperature	277 - 288	°C	
Nozzle Temperature	282 - 293	°C	
Processing (Melt) Temp	282 - 304	°C	
Mold Temperature	54.4 - 93.3	°C	
Injection Rate	Moderate-Fast		
Back Pressure	0.345 - 0.689	MPa	
Injection instructions			
Screw Speed: MediumRecommendations for Molding and Tool Conditions: Well ventedMoisture Content, as received: Product is packaged at 0.2% or less.Recomended Max Moisture: 0.12% down to 0.08%			
NOTE			
1.	Method A (short time)		

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