HiFill® PA6/6 GF33 IM HS L BK001

Polyamide 66

Techmer Engineered Solutions

Message:

HiFill®PA6/6 GF33 IM HS L BK001 is a polyamide 66 (nylon 66) product, which contains 20% glass fiber reinforced materials and 10% glass beads. It can be processed by injection molding and is available in North America.
Features include:
flame retardant/rated flame
heat stabilizer
Lubrication

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight Glass beads, 10% filler by weight		
Additive	heat stabilizer Lubricant		
Features	Thermal Stability Lubrication		
Appearance	Available colors		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.36	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow: 3.18mm	0.60	%	ASTM D955
Transverse flow	0.70	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	110		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Fracture	103	MPa	ASTM D638
--	121	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Flexural Strength	192	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	150	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**

Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	257	°C	ASTM D648
1.8 MPa, not annealed	249	°C	ASTM D648
CLTE - Flow	7.9E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+12	ohms	ASTM D257
Volume Resistivity	1.0E+11	ohms·cm	ASTM D257
Dielectric Strength [1]	17	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)

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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