HiFill FR® PA6 GF33 FR HS L

Polyamide 6

Techmer Engineered Solutions

Message:

HiFill FR® PA6 GF33 FR HS L is a Polyamide 6 (Nylon 6) product filled with 33% glass fiber. It can be processed by injection molding and is available in North America.
Characteristics include:
Flame Rated
Flame Retardant
Heat Stabilizer
Lubricated

General Information				
UL YellowCard	E253782-101773880			
Filler / Reinforcement	Glass Fiber,33% Filler by Weight			
Additive	Heat Stabilizer Lubricant			
Features	Flame Retardant Heat Stabilized Lubricated			
Appearance	Colors Available			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Specific Gravity	1.63	--	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30	--	%	ASTM D955
Water Absorption (24 hr)	0.75	--	%	ASTM D570
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	122	--		ASTM D785
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Strength (Break)	152	125	MPa	ASTM D638
Tensile Elongation (Break)	3.5	4.5	%	ASTM D638
Flexural Modulus	8960	6890	MPa	ASTM D790
Flexural Strength	200	179	MPa	ASTM D790
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	85	120	J/m	ASTM D256
Unnotched Izod Impact	850	1000	J/m	ASTM D256
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**

Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	218	--	°C	
1.8 MPa, Unannealed	216	--	°C	
CLTE - Flow	2.2E-5	--	cm/cm/°C	ASTM D696
RTI Elec	120	--	°C	UL 746
RTI Imp	120	--	°C	UL 746
RTI Str	115	--	°C	UL 746
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	--	ohms	ASTM D257
Volume Resistivity	1.0E+14	--	ohms·cm	ASTM D257
Dielectric Strength [1]	16	--	kV/mm	ASTM D149
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.50 mm, ALL)	V-0	--		UL 94
Additional Information	Dry	Conditioned		
TPCI #	6536102	--		
Injection	Dry	Unit		
Drying Temperature	82.2		°C	
Drying Time	2.0 to 4.0		hr	
Rear Temperature	232 to 257		°C	
Middle Temperature	232 to 257		°C	
Front Temperature	232 to 257		°C	
Processing (Melt) Temp	238 to 266		°C	
Mold Temperature	65.6 to 93.3		°C	
Back Pressure	0.345 to 0.689		MPa	
Screw Speed	30 to 60		rpm	
NOTE				
1.	Method A (Short-Time)			

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China


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