HiFill FR® PA6 GF13 FR

Polyamide 6

Techmer Engineered Solutions

Message:

HiFill FR® PA6 GF13 FR is a Polyamide 6 (Nylon 6) product filled with 13% glass fiber. It can be processed by injection molding and is available in North America.
Characteristics include:
Flame Rated
RoHS Compliant
Flame Retardant
Heat Stabilizer
Lubricated

General Information			
Filler / Reinforcement	Glass Fiber,13% Filler by Weight		
Additive	Heat Stabilizer Lubricant		
Features	Flame Retardant Heat Stabilized Lubricated		
Agency Ratings	EU Unspecified Rating		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.48	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.40	%	ASTM D955
Water Absorption (24 hr)	0.90	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	110	MPa	ASTM D638
Tensile Elongation (Break)	4.2	%	ASTM D638
Flexural Modulus	4830	MPa	ASTM D790
Flexural Strength	152	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	91	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	216	°C	ASTM D648

CLTE - Flow	3.6E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**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	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.50 mm)	V-0		UL 94
Injection	**Nominal Value**	**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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