HiFill FR® PA6/6 GF40 FR HS L

Polyamide 66

Techmer Engineered Solutions

Message:

HiFill FR® PA6/6 GF40 FR HS L is a Polyamide 66 (Nylon 66) product filled with 40% 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			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Additive	Heat Stabilizer Lubricant		
Features	Flame Retardant Heat Stabilized Lubricated		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.70	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.40	%	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)	194	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	11200	MPa	ASTM D790
Flexural Strength	338	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	130	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, Unannealed	259	°C	
1.8 MPa, Unannealed	255	°C	

CLTE - Flow	1.8E-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)	V-0		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature	82.2	°C	
Drying Time	> 6.0	hr	
Rear Temperature	254 to 277	°C	
Middle Temperature	254 to 277	°C	
Front Temperature	254 to 277	°C	
Processing (Melt) Temp	249 to 271	°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

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