HiFill® PA6 GM40 L

Polyamide 6

Techmer Engineered Solutions

Message:

HiFill® PA6 GM40 L is a Polyamide 6 (Nylon 6) product filled with 40% milled glass fiber. It can be processed by injection molding and is available in North America. Primary characteristic: lubricated.

General Information			
Filler / Reinforcement	Milled Glass Fiber,40% Filler by Weight		
Additive	Lubricant		
Features	Lubricated		
Appearance	Colors Available Natural Color		
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)	0.70	%	ASTM D955
Water Absorption (24 hr)	0.95	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	121		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	86.2	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	5720	MPa	ASTM D790
Flexural Strength	131	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	53	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	320	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	204	°C	
1.8 MPa, Unannealed	119	°C	
CLTE - Flow	7.2E-6	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+13	ohms·cm	ASTM D257
Dielectric Strength [1]	18	kV/mm	ASTM D149
Injection	**Nominal Value**	**Unit**	
Drying Temperature	82.2	°C	

Drying Time	4.0	hr
Rear Temperature	260 to 304	°C
Middle Temperature	260 to 304	°C
Front Temperature	260 to 304	°C
Processing (Melt) Temp	243 to 271	°C
Mold Temperature	65.6 to 93.3	°C
Back Pressure	0.00 to 0.345	MPa
Screw Speed	30 to 60	rpm

NOTE	
1.	Method A (Short-Time)

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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