

# HiFill® PA6/6 GF45 TL10

Polyamide 66

Techmer Engineered Solutions

## Message:

HiFill® PA6/6 GF45 TL10 is a polyamide 66 (nylon 66) product, which contains a 45% glass fiber reinforced material. It can be processed by injection molding and is available in North America.

Features include:

flame retardant/rated flame

Lubrication

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 45% filler by weight		
Additive	PTFE lubricant (10%)		
Features	Lubrication		
Appearance	Available colors		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.60	g/cm <sup>3</sup>	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			ASTM D638
Fracture	181	MPa	ASTM D638
Fracture, 93°C	131	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus			ASTM D790
--	11000	MPa	ASTM D790
93°C	8960	MPa	ASTM D790
Flexural Strength	296	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	120	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, not annealed	259	°C	ASTM D648
1.8 MPa, not annealed	255	°C	ASTM D648
CLTE - Flow	7.4E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method

Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength <sup>1</sup>	20	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)		

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#### 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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