

TechnoFiber PP LGF 40-10-01 H

Polypropylene
TechnoCompound GmbH

Message:

TechnoFiber: Strong and light

TechnoFiber products are long glass fiber remforced thermoplastics made by TechnoCompound GmbH. These raw materials are fashioned into so-called tailor-made compounds upon customer specifications. Nearly all semi-crystalline and amorphous thermoplastics can be used as thermoplastic matrix. Our long glass fiber products are predestmed for the manufacturing of components which are exposed to extreme mechanical stress - as well as to high temperatures. The long glass fiber reinforced pellets are available in lengths of 10 - 25 mm. Fiber and pellet are of the same length. The two-step pultrusion technology applied by TechnoCompound coats each glass fiber filament wth a polymer matrix and JOINS fiber and matrix.

Typical Applications

Automobil: Automotive industry: battery holders, wheel covers, ash trays, engine insulation, gear shift sticks, electronic accelerator pedals, exhaust trims, instrument panel...

Electrical engineering: casings for power tools...

Leisure industry: snowboard bindings...

Construction industry: wear-resistant conveyor belts

Furniture industry: fittings, chair frames, hinges...

General Information	
Filler / Reinforcement	Long glass fiber, 40% filler by weight
Additive	UV stabilizer
Features	UV Stabilized
	Semicrystallization
	Low volatilization
	High strength
	Impact resistance, high
	Heat resistance, high
	amorphous
Uses	Conveyor
	Battery box
	Electrical/Electronic Applications
	Power/other tools
	Furniture
	Architectural application field
	Accessories
	Application in Automobile Field
	Car dashboard
	Sporting goods
Appearance	Black
	Available colors
	Natural color

Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
shrinkage-Flow ¹	0.20	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8900	MPa	ISO 527-2/1
Tensile Stress (Yield)	120	MPa	ISO 527-2/50
Tensile Strain (Yield)	2.3	%	ISO 527-2/50
Flexural Modulus ²	9100	MPa	ISO 178
Flexural Stress ³	140	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	19	kJ/m ²	ISO 179/1eA
23°C	20	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	54	kJ/m ²	ISO 179/1eU
23°C	58	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	160	°C	ISO 75-2/B
1.8 MPa, not annealed	152	°C	ISO 75-2/A
8.0 MPa, not annealed	128	°C	ISO 75-2/C
Melting Temperature ⁴	165	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 80°C	1.5E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 80°C	3.4E-5	cm/cm/°C	ISO 11359-2
NOTE			
1.	220°C / WZ 40°C, 600 bar		
2.	2.0 mm/min		
3.	5.0 mm/min		
4.	10°C/min		

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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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