

# TechnoFiber PP LGF 20-10-01 HI

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, 20% 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	1.03	g/cm <sup>3</sup>	ISO 1183
shrinkage-Flow <sup>1</sup>	0.40	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4700	MPa	ISO 527-2/1
Tensile Stress (Yield)	85.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	2.8	%	ISO 527-2/50
Flexural Modulus <sup>2</sup>	4900	MPa	ISO 178
Flexural Stress <sup>3</sup>	110	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	16	kJ/m <sup>2</sup>	ISO 179/1eA
23°C	17	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	52	kJ/m <sup>2</sup>	ISO 179/1eU
23°C	50	kJ/m <sup>2</sup>	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	160	°C	ISO 75-2/B
Melting Temperature <sup>4</sup>	165	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 80°C	1.8E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 80°C	4.9E-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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