TechnoFiber PP LGF 50-10-01 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 matrlx. Our long glass flber 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 flber fllament wlth a polymer matrrx and JOINS flber and matrrx.
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, 50% 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	1.31	g/cm³	ISO 1183
shrinkage-Flow [1]	0.20	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12000	MPa	ISO 527-2/1
Tensile Stress (Yield)	130	MPa	ISO 527-2/50
Tensile Strain (Yield)	2.0	%	ISO 527-2/50
Flexural Modulus [2]	12100	MPa	ISO 178
Flexural Stress [3]	152	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	22	kJ/m²	ISO 179/1eA
23°C	22	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	56	kJ/m²	ISO 179/1eU
23°C	60	kJ/m²	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	154	°C	ISO 75-2/A
8.0 MPa, not annealed	132	°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	1.2E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 80°C	1.7E-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		

Recommended distributors for this material

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