

TechnoPet GF 45 2 1

Polyethylene Terephthalate
TechnoCompound GmbH

Message:

TechnoPet: Attractive and cost effective
The TechnoPet compound line contains non-reinforced, glass fiber reinforced, impact strength modified as well as UV stabilized compounds for outdoor use.
TechnoPet compounds offer these properties:
High stiffness
High thermal stability >220°C
Attractive surface
High dimensional stability
For these reasons they represent an extremely cost effective solution compared with other technical compounds.
Typical Applications
Automotive industry: e.g. as a substitute for PA, engine covers...
Electrical engineering: e.g. lamp holders: glass fiber reinforced, flame retardant, high stiffness; multiple power sockets: modified impact strength, high dimensional accuracy...
Household appliances: e.g. steam irons: thermally stabilized PET compounds...
Packaging/logistics: e.g. logistic systems: modified impact strength, structural stability and strength...
Mechanical engineering: castors, bearings, gears, guide slide bearings...

General Information	
Filler / Reinforcement	Glass fiber reinforced material, 45% filler by weight
Features	High Dimensional Stability
	Rigidity, high
	Insulation
	Thermal stability, good
	Good appearance
Uses	Packaging
	Gear
	Electrical/Electronic Applications
	Electrical appliances
	Application in Automobile Field
	Bearing

Physical	Nominal Value	Unit	Test Method
Density	1.73	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 2577
Transverse flow	1.0	%	ISO 2577
Flow	0.25	%	ISO 2577
Water Absorption			ISO 62
23°C, 24 hr	0.15	%	ISO 62
Saturated, 23°C	0.40	%	ISO 62
Viscosity Number (Reduced Viscosity)	58.0	ml/g	ISO 1628

Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness ²	260	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	17000	MPa	ISO 527-2/1
Tensile Stress (Break)	175	MPa	ISO 527-2/5
Tensile Strain (Break)	1.5	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	10	kJ/m ²	ISO 179/1eA
23°C	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	35	kJ/m ²	ISO 179/1eU
23°C	35	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
1.8 MPa, not annealed	210	°C	ISO 75-2/A
8.0 MPa, not annealed	145	°C	ISO 75-2/C
Vicat Softening Temperature	240	°C	ISO 306/B50
Melting Temperature ³	240	°C	ISO 11357-3
CLTE - Flow (23 to 80°C)	1.5E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+14	ohms	IEC 60093
Volume Resistivity	> 1.0E+16	ohms·cm	IEC 60093
Dielectric Strength (1.00 mm)	31	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	4.80		IEC 60250
1 MHz	4.20		IEC 60250
Comparative Tracking Index (Solution A)	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.8 mm)	HB		UL 94
Glow Wire Flammability Index (2.0 mm)	750	°C	IEC 60695-2-12
NOTE			
1.	275°C / WZ 135 bzw. 100°C, 600 bar		
2.	358 N		
3.	10°C/min		

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