TechnoDur PBT4 GK 30 Natural (9949)

Polybutylene Terephthalate

TechnoCompound GmbH

Message:

TechnoDur: Braves extremely low Temperatures
Our new TechnoDur PBT compound is a thermoplastic which combines great hardness, stiffness and strength. TechnoDur is easily processed due to its perfect flow behaviour. The favourable sliding and wear characteristics as well as extremely high tenacity in temperatures below freezing are further advantages.
Typical Applications
TechnoDur compounds may be applied in the following areas:
Electrical engineering: Lamp holders, micro switches, spools, brush-holder bridges, switches, cam divices, telephone housings...
Automobile construction: Junction boxes, petrol filters, fuel tank caps, heating, folds, headlights, car body panels, spark plug connectors...
Household appliances: Hair care appliances, components for toasters, fondue makers, coffeemakers...
Other: pump components, gears guide applications: slide bearings and components...

General Information	
Filler / Reinforcement	Glass beads, 30% filler by weight
Features	Rigidity, high High strength Workability, good Good liquidity Low temperature resistance Good wear resistance High hardness
Uses	Pump parts Electrical/Electronic Applications Electrical housing Electrical appliances Home appliance components Switch Application in Automobile Field Bearing
Appearance	Natural color

Physical	Nominal Value	Unit	Test Method
Density	1.54	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	14.0	cm³/10min	ISO 1133
Molding Shrinkage [1]			ISO 2577
Transverse flow	1.4	%	ISO 2577
Flow	1.4	%	ISO 2577
Water Absorption			ISO 62

23°C, 24 hr	0.18	%	ISO 62
Saturated, 23°C	0.35	%	ISO 62
Hardness	**Nominal Value**	**Unit**	**Test Method**
Ball Indentation Hardness [2]	175	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	4200	MPa	ISO 527-2/1
Tensile Stress (Break)	50.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	%	ISO 527-2/5
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	3.0	kJ/m^2	ISO 179/1eA
23°C	3.0	kJ/m^2	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	25	kJ/m^2	ISO 179/1eU
23°C	25	kJ/m^2	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	185	°C	ISO 75-2/B
1.8 MPa, not annealed	80.0	°C	ISO 75-2/A
Vicat Softening Temperature	195	°C	ISO 306/B50
Melting Temperature [3]	220 - 225	°C	ISO 11357-3
CLTE - Flow (23 to 80°C)	1.1E-4	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+14	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Relative Permittivity			IEC 60250
100 Hz	4.50		IEC 60250
1 MHz	4.30		IEC 60250
Comparative Tracking Index (Solution A)	250	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.8 mm)	HB		Internal method
NOTE			
1.	260°C / WZ 80°C, 600 bar		
2.	358 N		
3.	10°C/min		

Recommended distributors for this material

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