

Press Release

New TechnoDur Series

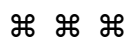
PBT Compounds from TechnoCompound

Bad Sobernheim, August 2006. – With its new TechnoDur series, the German firm of TechnoCompound GmbH has now added polybutylene terephthalate (PBT) based compounds to its range of compounds for the plastics processing industry. The company based in Bad Sobernheim is one of the first compounders to offer this product group in its portfolio. The benefit to the processor lies in the flexibility and speed of a medium-sized company, especially in cases where relatively small quantities are required. Moreover, thanks to its lean organizational structure and its strategic orientation in global raw material markets, TechnoCompound is also able to offer such compounds at relatively low cost.

The TechnoDur PBT compounds are available in various grades. Standard grades include unreinforced, glass fibre reinforced, impact modified and flame retardant compounds as well as blends of PBT and polyethylene terephthalate (PET). The table shows typical properties and values of several standard grades. Irrespective of quantity requirements, TechnoCompound can adapt these new compounds to individual requirements and supply them in any desired colour. As in the case of all its products, TechnoCompound offers comprehensive advice on the application of its new TechnoDur series and develops customized types for special applications.

The many areas of application of the TechnoDur series include the electrotechnical and electronic industries. The flame retardant grades have achieved V-0 classification in flammability tests carried out in accordance with standard UL 94. These grades bear the UL Listing Certificate and thus meet the strict safety requirements of the American and Canadian markets. Moreover, PBT compounds enjoy wide application in the automotive industry. Typical examples are fuel filters, headlamps, ignition plugs and carbody parts – in fact everywhere where the material must meet high demands on its mechanical and heat-resistant properties.

PBT (polybutylene terephthalate) is a thermoplastic material that is distinguished by its extreme hardness, rigidity and strength. Thanks to their good flow properties, the basic material and the compounds can be readily processed in injection moulding machines. Further advantageous features include favourable slip properties and wear resistance and extreme toughness at below-zero temperatures.



Further information:

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An MS-WORD file of this press release in English and German
and printable-grade copies of the enclosed image are available in the "News"
section at:
<http://www.technocompound.com>

	Unit	Unreinforced	Reinforced		Flame retardant		PBT/PET 30%
			10%	30%	Unreinforced	30%	
Density	g/cm ³	1.3	1.38	1.54	1.45	1.66	1.55
Tensile modulus (1 mm/min)	MPa	2600	4800	10000	3100	11000	10500
Yield stress (50 mm/min)	MPa	60			60		
Charpy impact strength (-30 °C)	kJ/m ²	200	30	75	65	55	60
Charpy notched impact strength (-30 °C)	kJ/m ²	5	4	11	4,5	9	10
Heat distortion temperature HDT A (1.80 MPa)	°C	60	190	210	65	210	205
Vicat softening temperature VST (50 N, 50 °C/h)	°C	180	205	220	190	225	225
Flammability UL 94 (0.8 mm)	Class	HB	HB	HB	V-0	V-0	HB
Processing temperature	°C	230-260	250-270	250-270	230-260	230-260	250-270
Mould temperature	°C	60	up to 120	up to 120	60	60	up to 120

Typical properties and values of standard TechnoDur grades

Table: TechnoCompound, Bad Sobernheim