PET TX

POLYETHYLENE TEREPHTHALATE MODIFIED

Material description

PET TX is a PET optimised for sliding applications. It contains a solid lubricant and is ideal for self-lubricating plain bearings under increased pressure and speed conditions.

Conformities

RoHS, REACH

Physical properties	Test method	Value	Unit
Density	DIN EN ISO 1183-1	1.44	g/cm3
Water absorbtion	DIN EN ISO 62	0.23	%
Sliding friction		◕	
Abrasion resistance		◕	

Mechanical properties	Test method	Value	Unit
Yield stress	DIN EN ISO 527	76	MPa
Elongation at break	DIN EN ISO 527	5	%
Tensile modulus of elasticity	DIN EN ISO 527	3300	MPa
Notched impact strength	DIN EN ISO 179	2.5	kJ/m2
Shore Hardness D	DIN EN ISO 868	78	

Thermal properties	Test method	Value	Unit
Thermal conductivity	DIN 52612-2	0.29	W/(m*K)
Coefficient of thermal expansion	DIN 53752	65	10^{-6*K}-1
Operating temperature short term		160	°C
Operating temperature long term		-20 bis 115	°C
Heat deflection temperature	DIN EN ISO 75 / A	75	°C
Flammability	UL 94, 3 mm	HB	

Electrical properties	Test method	Value	Unit
Volume resistivity	IEC 60093	10^{14}	Ω * cm
Surface resistivity	IEC 60093	10^{13}	Ω * cm
Dielectric strength	IEC 60243	21	kV/mm
Comparative tracking index (CTI)	IEC 60112	600	CTI

These technical data have been determined as average values by our suppliers from many individual measurements. In all measurements, the test specimens were tested in the dry state. We pass on the data with reservation. The table does not claim to be complete or correct. Material technology is subject to constant further development. No rights or guarantees can be derived from it. Own tests are necessary because the environmental and operating conditions (humidity, temperature, mechanical forces, radiation and chemicals, etc.) set limits in the application.

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