PE 1000 ANTISTATIC

POLYETHYLENE ANTISTATIC

Material description

PE 1000 antistatic is modified with a carbon-black material. Its antistatic properties make it ideal for use in conveyor systems. It has excellent abrasion resistance and is very impact resistant even at low temperatures.

Conformities

RoHS, REACH

Physical properties	Test method	Value	Unit
Density	DIN EN ISO 1183-1	0.94	g/cm3
Water absorbtion	DIN EN ISO 62	0.1	%
Sliding friction		●	
Abrasion resistance		●	

Mechanical properties	Test method	Value	Unit
Yield stress	DIN EN ISO 527	20	MPa
Elongation at break	DIN EN ISO 527	>50	%
Tensile modulus of elasticity	DIN EN ISO 527	790	MPa
Notched impact strength	DIN EN ISO 179	ohne Bruch	kJ/m2
Shore Hardness D	DIN EN ISO 868	60	

Thermal properties	Test method	Value	Unit
Thermal conductivity	DIN 52612-2	0.4	W/(m*K)
Coefficient of thermal expansion	DIN 53752	200	10^{-6*K}-1
Operating temperature short term		120	°C
Operating temperature long term		-150 bis 80	°C
Heat deflection temperature	DIN EN ISO 75 / A	42	°C
Flammability	UL 94, 3 mm	HB	

Electrical properties	Test method	Value	Unit
Surface resistivity	IEC 60093	10^{6}	Ω * cm

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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