POM-C ELS

POLYACETAL COPOLYMER ELECTRICALLY CONDUCTIVE

Material description

POM-C ELS has good electrical conductivity. It is very easy to machine and is suitable for sliding applications in conveyor technology.

Conformities

RoHS, REACH

Physical properties	Test method	Value	Unit
Density	DIN EN ISO 1183-1	1.38	g/cm3
Water absorbtion	DIN EN ISO 62	0.2	%
Sliding friction			
Abrasion resistance			

Mechanical properties	Test method	Value	Unit
Yield stress	DIN EN ISO 527	39	MPa
Elongation at break	DIN EN ISO 527	11	%
Tensile modulus of elasticity	DIN EN ISO 527	2000	MPa
Notched impact strength	DIN EN ISO 179	7.5	kJ/m2
Shore Hardness D	DIN EN ISO 868	78	

Thermal properties	Test method	Value	Unit
Thermal conductivity	DIN 52612-2	0.31	W/(m*K)
Coefficient of thermal expansion	DIN 53752	120	10^{-6*K}-1
Operating temperature short term		140	°C
Operating temperature long term		- 50 bis 110	°C
Heat deflection temperature	DIN EN ISO 75 / A	82	°C
Flammability	UL 94, 3 mm	HB	

Electrical properties	Test method	Value	Unit
Surface resistivity	IEC 60093	10^4	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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