Technical Data Sheet

POM C EL S

Polyoxymethylen Copolymer electrically conductive

General properties	Test method	Unit	Guideline value
Density	ISO 1183	g / cm³	1,38
Water absorption	ISO 62	%	0,8
Moisture absorption	ISO 62	%	0,2
Upper continunous perating temperature	UL746B	°C	110
Mechanical properties			
Yield stress	ISO 527	MPa	39
Tensile elongation	ISO 527	%	11
Elongation at break	ISO 527	%	11
Tear resistance	ISO 527	MPa	37
Modulus of elasticity	ISO 527	MPa	2005
Impact strength	ISO 179	kJ / m²	-
Notched impact strength	ISO 179	kJ / m²	7,5
Ball indentation (H_k) / Rockwell	ISO 2039	MPa	-
Shore hardness	ISO 868	scale D	84
Bending strength	ISO 178	MPa	-
Thermal properties			
Crystallite melting range	ISO 3146	°C	166
Vicat softening temperature (VST/B/50)	ISO 306	°C	-
Vicat-softening temperature (VST/A/50)	ISO 306	°C	-
Dimensional stability temperature (HDT/B)	ISO 75	°C	-
Dimensional stability temperature (HDT/A)	ISO 75	°C	82
Thermal conductivity 20 °C	ISO 22007-4	W / (m * K)	-
Coefficient of linear expansion	ISO 11359	$K^{-1} * 10\text{-}^{4}$	1,2
Glass transition temperature	ISO 3146	°C	-60
Electrical properties			
Specific contact resistance	IEC 60093	Ω*cm	$\geq 10^{1}$
Surface resistance	IEC 60093	Ω	$\geq 10^{4}$
Diel. Dissipation factor at 1 MHz	IEC 60250	-	-
Dielectric strength	IEC 60243-1	kV/mm	-
Dielectric constant at 1 MHz	IEC 60250	-	-
Tracking resistance	IEC 60112	V	-
Further Information			
Bonding option	-	-	-
Physiological safety	EEC FDA	-	-

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Fire behavior	UL 94	-	HB
Oxygen Index	ASTM D2863	%	-

These values have been compiled by experts and reflect our current experience. They can therefore be considered highly applicable without being binding for every case of application. The stated values are average values which are verified by regular tests. The characteristic values correspond to the specifications of DIN EN 15860 and my deviate in the finished product. These are guide values and not warranted properties that are merely intended to provide information about our products and to assist in the selection of materials. In the absence of measured values, raw material data or literature values were used where available. Subject to change without notice.

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