

Technical datasheet

POM-C ELS black (Polyoxymethylene copolymer ELS-conductive)

Example of application			
> mechanical engineering; bearing components; blade wheels			
Advantages		Disadvantages	
 excellent machinablity and good anti-friction properties high viscosity electrically conductive 		 poor adhesion and paintability poor acid resistance 	
Basic information	Specification		
Format	round material: 30 mm up to 80 mm available in 3 m length sheets : 10 up to 60 mm available in 3 m x 0.62 m length		
Physical properties	Standard term/Specification*	Unit	Testing method
Density	1.40	g/cm ³	ISO 1183
Moisture ingress	0.25	%	DIN EN ISO 62
Mechanical properties	Standard term/Specification*	Unit	Testing method
Tensile strength	40	МРа	DIN EN ISO 527
Elongation at break	30	%	DIN EN ISO 527
E-Module	1.900	МРа	DIN EN ISO 527
Notch toughness	5.0	kJ/m²	ISO 179
Rochwellhardness	100	МРа	DIN EN ISO 2039
Thermal properties	Standard term/Specification*	Unit	Testing method
Thermal conductivity	n.sp.	W/(m·K)	DIN 52612
Linear thermal expansion coefficient based on a fixed initial length	1.3	K-1 · 10-4	DIN 53752
	2.6	mm	At initial length of 1.000 mm and a temperature difference of 20 °C.
Max. operating temperature, long-term	100	°C	
Max. operating temperature, short-term	140	°C	
Min. operating temperature, long-term	-20	°C	
Electrical properties	Standard term/Specification*	Unit	Testing method
Resistance	5 x 10 ³	Ω·cm	DIN IEC 60093
Outer surface coefficient	≤ 10 ⁵	Ω	DIN IEC 60093
Puncture resistance	n.sp.	kV/mm	DIN EN 60243

Legend

n.sp. = not specified

Should you require binding and exact values, please ask for the appropriate factory certificate. This may incur additional costs. Please note that all specifications are standard values only, which are subject to production-related fluctuations.

*Higher specification on request.

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