

## POM-C EL, electrically conducting copolymer

Electrically conducting grade, also enhanced UV-protection. Black colour.

Mechanical properties	Test method	Test environment	Unit	Value
Tensile strength	ISO 527	yield, 23 °C	MPa	50
Tensile strain	ISO 527	break, 23 °C	%	15
Tensile modulus	ISO 527	23 °C	GPa	2,0
Impact strength	ISO 179	Charpy, unnotched, 23 °C	kJ/m <sup>2</sup>	50

Thermal properties	Test method	Test environment	Unit	Value
Service temperature	- -	short term	°C	140
Melting point	ISO 3146	-	°C	165
Glass transition temperature	DIN 53736	-	°C	-60
Heat distortion temperature	ISO 75	1,82 MPa	°C	89
Coefficient of linear thermal expansion	ASTM D696	23 °C	10 <sup>-5</sup> K <sup>-1</sup>	13

Electrical properties	Test method	Test environment	Unit	Value
Volume resistivity	DIN 53482	-	ohm cm	1*10 <sup>3</sup>
Surface resistivity	DIN 53482	-	ohm	5*10 <sup>3</sup>

Other properties	Test method	Test environment	Unit	Value
Density	ISO 1183	-	g/cm <sup>3</sup>	1,41
Water absorption	DIN 53715	equilibrium, 23 °C, RH 50%	%	0,25
Water absorption	ASTM D570	saturation, immersion, 23 °C	%	0,5
Flammability	UL 94	1,6 mm	-	HB

The data presented are taken from our suppliers and represent our best knowledge. The values are given in good faith. They should not constitute the basis for calculations, construction etc. The responsibility for verifying material data rests with the end-user.