

# Physical properties POM-C ELS Plus

## Product characteristics:

- Electrically conductive
- Very high stiffness
- High dimensional stability

## Product applications::

- Mechanical engineering
- Explosion protection
- Conveyor technology

General properties	Test method	Unit	Value
Color			black
Density	DIN EN ISO 1183-1	g/cm <sup>3</sup>	1.44
Water absorption	DIN EN ISO 62	%	0.20
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB / HB
<b>Mechanical properties</b>			
Yield stress	DIN EN ISO 527	MPa	45
Elongation at break	DIN EN ISO 527	%	10
Tensile modulus of elasticity	DIN EN ISO 527	MPa	3700
Notched impact strength	DIN EN ISO 179	kJ/m <sup>2</sup>	2.5
Shore hardness	DIN EN ISO 868	scala D	78
Ball indentation hardness	DIN EN ISO 2039-1	MPa	180
<b>Thermal properties</b>			
Crystalline grain melting range	ISO 11357-3	°C	165
Service temperature, long term	Average	°C	-20 ... 100
Service temperature, short term (max.)	Average	°C	140
Heat deflection temperature	DIN EN ISO 75, Verf. A, HDT	°C	110
<b>Electrical properties</b>			
Surface resistivity	IEC 60093	Ω	≤10 <sup>4</sup>

This table is a valuable help in the choice of a material. The data listed here fall within the normal range of products properties, but they should not be used to establish material specification limits nor used alone as the basis of design.