

# Physical properties POM-C AS

## Product characteristics:

- Antistatic
- No carbon black
- Good sliding behaviour

## Product applications:

- Clean room and semi conductor industry
- Explosion protection
- Packaging industry

General properties	Test method	Unit	Value
Color			
Density	DIN EN ISO 1183-1	g/cm <sup>3</sup>	1.34
Water absorption	DIN EN ISO 62	%	0.2
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB / HB
<b>Mechanical properties</b>			
Yield stress	DIN EN ISO 527	MPa	42
Elongation at break	DIN EN ISO 527	%	20
Tensile modulus of elasticity	DIN EN ISO 527	MPa	1800
Notched impact strength	DIN EN ISO 179	kJ/m <sup>2</sup>	5
Shore hardness	DIN EN ISO 868	scala D	76
<b>Thermal properties</b>			
Crystalline grain melting range	ISO 11357-3	°C	165
Coefficient of linear thermal expansion	DIN 53752	10 <sup>-6</sup> /K	170
Service temperature, long term	Average	°C	-50 ... 85
Service temperature, short term (max.)	Average	°C	140
Heat deflection temperature	DIN EN ISO 75, Verf. A, HDT	°C	106
<b>Electrical properties</b>			
Volume resistivity	IEC 60093	Ω*cm	10 <sup>9</sup> ... 10 <sup>12</sup>
Surface resistivity	IEC 60093	Ω	10 <sup>9</sup> ... 10 <sup>11</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.