

Technical Data Sheet

Sustarin[®] C ESD 90 natural

POM-C

Typical characteristics

- Antistatic
- No carbon black
- Low moisture absorption
- High mechanical strength
- High stiffness
- Good impact strength
- Low creep tendency
- Good sliding properties

Typical industries

- Clean-Room Technology
- Electronics
- Mechanical Engineering Industry
- Electrical Industry

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	1,34
Water absorption	DIN EN ISO 62	%	0,2
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB / HB
Mechanical properties			
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 ²	5
Shore hardness	DIN EN ISO 868	scale D	76
Thermal properties			
Melting temperature	ISO 11357-3	°C	165
Coefficient of linear thermal expansion	DIN 53752	10 ⁻⁶ / 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
Electrical properties			
Volume resistivity	DIN EN 62631-3-1	Ω * cm	10 ⁹ ... 10 ¹²
Surface resistivity	DIN EN 62631-3-2	Ω	10 ⁹ ... 10 ¹²

