

Technical Data Sheet

SustaPEEK MOD ESD 90 black

PEEK

Typical characteristics

- Good sliding properties
- Good wear properties
- High rigidity
- Flame retardant
- Self-extinguishing
- Low smoke density
- Good resistance against high energy radiation
- High abrasion resistance
- Antistatic
- high dimensional stability under heat
- High continuous service temperature
- Low coefficient of thermal expansion
- Good wear resistance
- Good dimensional stability
- High tensile strength
- High stiffness
- Good impact strength

Typical industries

- Electronics
- Conveyor Technology & Automation
- Chemical storage tanks
- Mechanical Engineering Industry
- Aerospace
- Electrical Industry
- Semiconductor Front-End applications
- Semiconductor Wafer Handling

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	1,46
Water absorption	DIN EN ISO 62	%	0,20
Flammability (Thickness 3 mm / 6 mm)	UL 94		V0 / V0
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	75
Elongation at break	DIN EN ISO 527	%	4
Tensile modulus of elasticity	DIN EN ISO 527	MPa	4900
Notched impact strength	DIN EN ISO 179	kJ / m ²	5



	Test method	Unit	Guideline value
Shore hardness	DIN EN ISO 868	scale D	85
Thermal properties			
Melting temperature	ISO 11357-3	°C	343
Coefficient of linear thermal expansion	DIN 53752	10 ⁻⁶ / K	30
Service temperature, long term	Average	°C	-30 ... 250
Service temperature, short term (max.)	Average	°C	310
Heat deflection temperature	DIN EN ISO 75, Verf. A, HDT	°C	293
Electrical properties			
Volume resistivity	DIN EN 62631-3-1	Ω * cm	10 ⁶ - 10 ⁹
Surface resistivity	DIN EN 62631-3-2	Ω	10 ⁶ - 10 ⁹

