

Technical Data Sheet

SustaPEEK CF 30 black

PEEK

Typical characteristics

- Low coefficient of thermal expansion
- Electrically conductive
- High stiffness
- Good dimensional stability

Typical industries

- Electronics
- Aerospace
- Semiconductor Industry
- Oil and Gas
- Vehicle Construction
- Semiconductor Front-End applications
- Semiconductor Wafer Handling

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	1,40
Water absorption	DIN EN ISO 62	%	0,1
Flammability (Thickness 3 mm / 6 mm)	UL 94		V0 / V0
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	120
Elongation at break	DIN EN ISO 527	%	7
Tensile modulus of elasticity	DIN EN ISO 527	MPa	6500
Shore hardness	DIN EN ISO 868	scale D	91
Thermal properties			
Melting temperature	ISO 11357-3	°C	343
Thermal conductivity	DIN 52612-1	W / (m * K)	0,92
Coefficient of linear thermal expansion	DIN 53752	10 ⁻⁶ / K	25
Service temperature, long term	Average	°C	-20 ... 250
Service temperature, short term (max.)	Average	°C	310
Heat deflection temperature	DIN EN ISO 75, Verf. A, HDT	°C	315
Electrical properties			
Volume resistivity	DIN EN 62631-3-1	Ω * cm	< 10 ⁴

	Test method	Unit	Guideline value
Surface resistivity	DIN EN 62631-3-2	Ω	$< 10^4$

