

### Technical Data Sheet

## SustaPEEK CM CF 30 black

PEEK

#### Typical characteristics

- Flame retardant
- Self-extinguishing
- Low smoke density
- Good dimensional stability

#### Typical industries

- Electronics
- Oil and Gas
- Subsea
- Pipelines
- Topside
- Downhole
- Semiconductor Wafer Handling
- Semiconductor Front-End applications
- Semiconductor High and low temperature

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	DIN EN ISO 1183-1	g / cm <sup>3</sup>	1,42
Water absorption	DIN EN ISO 62	%	0,1
Flammability (Thickness 3 mm / 6 mm)	UL 94		V0 / V0
<b>Mechanical properties</b>			
Yield stress	DIN EN ISO 527	MPa	100
Elongation at break	DIN EN ISO 527	%	1,5
Tensile modulus of elasticity	DIN EN ISO 527	MPa	9500
Notched impact strength	DIN EN ISO 179	kJ / m <sup>2</sup>	2
Shore hardness	DIN EN ISO 868	scale D	90
<b>Thermal properties</b>			
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 <sup>-6</sup> / K	25
Service temperature, long term	Average	°C	-60 ... 250
Service temperature, short term (max.)	Average	°C	310



	Test method	Unit	Guideline value
<b>Electrical properties</b>			
Volume resistivity	DIN EN 62631-3-1	$\Omega \cdot \text{cm}$	$\leq 10^5$
Surface resistivity	DIN EN 62631-3-2	$\Omega$	$\leq 10^5$

