

CF-PEEK Technical Data Sheet(TDS)

Mechanical Properties	Parameter	Norm	Value	Unit
Tensile Strength	50 mm/min	DIN EN ISO 527-2	112	MPa
Modulus of Elasticity	1 mm/min	DIN EN ISO 527-2	6000	MPa
Elongation at Break	50 mm/min	DIN EN ISO 527-2	10	%
Compressive Strength	1% /2%/5%	EN ISO 604	25/47/111	MPa
Impact Strength (Charpy)	max. 7,5J	DIN EN ISO 179-1eU	92	kJ/m ²
Ball Indentation Hardness		ISO 2039-1	298	MPa
Thermal properties	Parameter	Norm	Value	Unit
Glass Transition Temperature		DIN EN ISO 11357	147	°C
Melting Temperature		DIN EN ISO 11357	341	°C
Service Temperature	Short term		300	°C
Service Temperature	Long term		260	°C
Thermal Expansion (CLTE)	23 - 60°C, long	DIN EN ISO 11359-1;2	4	10 ⁻⁵ k ⁻¹
Thermal Expansion (CLTE)	23-100°C, long	DIN EN ISO 11359-1;2	4	10 ⁻⁵ k ⁻¹
Thermal Expansion (CLTE)	100-150°C, long	DIN EN ISO 11359-1;2	6	10 ⁻⁵ k ⁻¹
Specific Heat		ISO 22007-4 : 2008	1.2	J/(g(K)
Thermal Conductivity		ISO 22007-4 : 2008	0.66	W/(K*m)

Electrical Properties	Parameter	Norm	Value	Unit
Surface Resistivity		DIN EN 61340-2-3	10 ³ – 10 ¹²	Ω
Volume Resistivity		DIN EN 61340-2-3		Ω*cm

Other Properties	Parameter	Norm	Value	Unit
Water Absorption	24h/96h	DIN EN ISO 62	0.02/0.03	%
Resistance to weathering		-	-	
Flammability (UL94)	Corresponding to	DIN IEC 60695-11-10	V0	