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Technical datasheet

PEEK CF 30 (Polyetheretherketon)

Example of application
› electrical engineering; military technology; precision engineering

Advantages	Disadvantages
› high dimensional stability › very high tensile strenght and stiffness	› cannot be bonded or welded › limited range of dimensions

Basic information	Specification
Format	**round material:** 10 mm up to 50 mm available in 1 m length **sheets:** upon request

Physical properties	Standard term/Specification*	Unit	Testing method
Density	1.40	g/cm^3	ISO 1183
Moisture ingress	0.14	%	DIN EN ISO 62

Mechanical properties	Standard term/Specification*	Unit	Testing method
Tensile strength	120	MPa	DIN EN ISO 527
Elongation at break	7	%	DIN EN ISO 527
E-Module	6,500	MPa	DIN EN ISO 527
Notch toughness	n.sp.	kJ/m^2	ISO 179
Rochwell hardness	310	MPa	DIN EN ISO 2039

Thermal properties	Standard term/Specification*	Unit	Testing method
Thermal conductivity	0.29	W/(m·K)	DIN 52612
Linear thermal expansion coefficient based on a fixed initial length	0.25	$K^{-1} \cdot 10^{-4}$	DIN 53752
	0.5	mm	At initial length of 1.000 mm and a temperature difference of 20 °C.
Max. operating temperature, long-term	250	°C	
Max. operating temperature, short-term	310	°C	
Min. operating temperature, long-term	- 20	°C	

Electrical properties	Standard term/Specification*	Unit	Testing method
Resistance	$< 10^4$	Ω·cm	DIN IEC 60093
Outer surface coefficient	$< 10^4$	Ω	DIN IEC 60093
Puncture resistance	n.sp.	kV/mm	DIN EN 60243

Legend
n.sp. = not specified n.a. = not applicable

Should you require binding and exact values, please ask for the appropriate factory certificate. This may incur additional costs. Please note that all specifications are standard values only, which are subject to production-related fluctuations.
*Higher specification on request.

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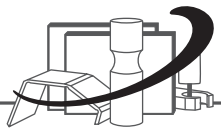

technical plastics

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