

SUSTAPEEK CF 30

Polyetheretherketone
Röchling Sustaplast SE & Co. KG

Message:

- Product characteristics
- Low coefficient of thermal expansion
- High mechanical strength and rigidity
- Very high dimensional stability
- Typical fields of application
- Electrical industry
- Military technology
- Precision engineering

General Information	
Features	Good Dimensional Stability
	High Rigidity
	High Strength

Uses	Electrical/Electronic Applications
	Engineered Applications
	Military Applications

Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm³	ISO 1183

Water Absorption (Equilibrium, 23°C, 50% RH)	0.14	%	ISO 62
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Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	91		ISO 868
Ball Indentation Hardness	310	MPa	ISO 2039-1

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6500	MPa	ISO 527-2
Tensile Stress (Yield)	120	MPa	ISO 527-2
Tensile Strain (Break)	7.0	%	ISO 527-2

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	315	°C	ISO 75-2/A
Continuous Use Temperature			
-- 1	-20.0 to 250	°C	
-- 2	< 310	°C	

CLTE - Flow	2.5E-5	cm/cm/°C	DIN 53752
Thermal Conductivity	0.92	W/m/K	DIN 52612

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+4	ohms	IEC 60093

Volume Resistivity	< 1.0E+4	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
3.00 mm	V-0		
6.00 mm	V-0		
NOTE			
1.	Long Term		
2.	Short Term		

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