PEEK / POLIETERCETONA

General properties	Test method		
Density	DIN EN ISO 1183-1	g/cm3	1,31
Water absorption	DIN EN ISO 62	%	0,2
Flammability (Thickness 3 mm / 6 mm)	UL 94		V0 / V0
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	110
Elongation at break	DIN EN ISO 527	%	20
Tensile modulus of elasticity	DIN EN ISO 527	MPa	4000
Notched impact strength (charpy)	DIN EN ISO 179	kJ/m^2	-
Ball indentation hardness	DIN EN ISO 2039-1	MPa	230
Shore hardness	DIN EN ISO 868	scale D	88
Thermal properties			
Melting temperature	ISO 11357-3	ºC	343
Thermal conductivity	DIN 52612-1	W/(m*K)	0,25
Thermal capacity	DIN 52612	kJ/(kg*K)	1,34
Coefficient of linear thermal expansion	DIN 53752	$10^{-6}K^{-1}$	50
Service temperature, long term	Average	ºC	-60…250
Service temperature, short term (max.)	Average	ºC	310
Heat deflection temperature	DIN EN ISO 306, Vicat B	ºC	152
Electrical properties			
Dielectric constant	IEC 60250		3,2
Dielectric dissipation factor (50Hz)	IEC 60250		0,001
Volume resistivity	IEC 60093	Ω *cm	$4,9 * >10_{16}$
Surface resistivity	IEC 60093	Ω	10_{18}
Comparative tracking index	IEC 60112		-
Dielectric strength	IEC 60243	kV/mm	20

Product characteristics

- Excellent dimensional stability
- High flame retardance and self-extinguishing.
- Very low smoke density

Typical field of application

- Medical technology
- Aerospace engineering
- Electrical industry

The data stated above are average values ascertained by statistical tests on a regular basis. They are in accordance with DIN EN 15860. The data above are provided purely for information and shall not be regarded as binding unless expressly agreed in a contract of sale.

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