



TECHNICAL PROPERTIES OF PEEK

11/2014

Property	Unit	Test method	Condition specimen	PEEK
MECHANICAL PROPERTIES				
Tensile strength at break	MPa	ISO 527	dry	96
Elongation at break	%	ISO 527	dry	30
Modulus of elasticity in tension	MPa	ISO 527	dry	3500
Charpy impact strength + 23°C	kJ/m ²	ISO 179/1eU	dry	no break
Charpy notched impact strength	kJ/m ²	ISO 179/1eA	dry	7
THERMAL PROPERTIES				
Heat distortion temperature, Method A	°C	ISO 75	dry	155
Heat distortion temperature, Method B	°C	ISO 75	dry	205
Melting point	°C	ISO 3146	-	340
Thermal coefficient of linear expansion	1/K. 10 ⁻⁴	DIN 53452	dry	0,6
DIELECTRIC PROPERTIES				
Dielectric constant 1 MHz	-	IEC 250	dry	2,8
Dielectric strength	KV/mm	IEC 243	dry	16
Volume resistivity	Ω.cm	IEC 93	dry	10 ¹⁵
Surface resistivity R _{0A}	Ω	IEC 93	dry	10 ¹⁴
Comparative tracking index	-	IEC 112	dry/moist	200
MISCELLANEOUS PROPERTIES				
Mass density	g/cm ³	ISO 1183	dry	1,30
Water absorption at 23 °C Saturation	%	ISO 62	-	0,5
Fire performance according UL94 (thickness 1,6mm)	-	UL 94	-	V0

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