CUT TO SIZE PLASTICS

TECHNICAL DATA SHEET
PEEK®

	Unit	Test method	PEEK
Physical Properties			
Specific gravity	g/cm³	ISO 1183	1.32
Water absorption	%	ISO 62	0.1
Upper temperature limit	°C	-	260
Lower temperature limit	°C	-	-40
Mechanical Properties			
Tensile strength at yield	MPa	ISO 527	95
Elongation at yield.	%	ISO 527	-
Tensile strength at break	MPa	ISO 527	-
Elongation at break	%	ISO 527	25
Impact strength	kJ/m^2	ISO 179	no break
Notch impact strength	kJ/m^2	ISO 179	-
Ball indentation / Rockwell hardness	MPa	ISO 2039-1	- / M 99
Shore-D		DIN 53505	90
Flexural strength	MPa	ISO 178	170
Modulus of elasticity	MPa	ISO 527	3000
Thermal Properties			
Vicat-softening point - VST/B/50	°C	ISO 306	250
Heat deflection temperature - HDT/B	°C	ISO 75	182
Heat deflection temperature - HDT/A	°C		140
Coefficient of linear thermal expansion	$K^{-1} * 10^{-4}$	DIN 53752	0.5
Thermal conductivity at 20 °C	W/(m * K)		0.25
Electrical Properties			
Volume resistivity	Ω * cm	VDE 0303	$>=10^{16}$
Surface resistivity	Ω		$>=10^{15}$
Dielectric constant at 1MHz	-		3.2
Dielectric loss factor at 1 MHz	-	DIN 53483	0.003
Dielectric strength	kV/mm	VDE 0303	20
Tracking resistance	-	IEC 60122	CTI 150
Additional Data			
Bond ability	-		+
Friction coefficient	-	DIN 53375	0.34
Flammability	-	UL 94	V-0
UV stabilisation	-	-	fair

All values are attributes of the used raw materials.

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