



MDS.43.00

# PEEK BEARINGS

## Physical Properties

Specific Gravity	ISO 1183	g/cm <sup>3</sup>	1.32
Water Absorption	ISO 62	%	0.40
Humidity Absorption	ISO 62	%	0.07
Max permissible service temperature	UL746B	°C	+260
Lower permissible service temperature	UL746B	°C	-40

## Mechanical Properties

Tensile strength at yield	ISO 527	MPa	91
Elongation at yield	ISO 527	%	7
Tensile strength at break	ISO 527	Mpa	67
Elongation at break	ISO 527	%	11
Impact strength	ISO 179	Kj/m <sup>2</sup>	o.B.
Notch impact strength	ISO 179	Kj/m <sup>2</sup>	4
Ball indentation / Rockwell hardness	ISO 2039	Mpa	M 99
Shore-D	ISO 868		90
Flexural strength	ISO 178	MPa	170
Modulus of elasticity	ISO 527	MPa	4210

## Thermal Properties

Vicat-softening point VST/B/50	ISO 306	°C	250
Vicat-softening point VST/A/50	ISO 306	°C	-
Heat deflection temperature HDT/B	ISO 75	°C	240
Heat deflection temperature HDT/A	ISO 75	°C	158
Coef. of linear thermal expansion	ISO 11359	K <sup>-1</sup> * 10 <sup>-4</sup>	0.47
Thermal conductivity at 20°C	ISO 22007-4	W/(m*K)	0.25
GGlass transition temperature	ISO 3146	°C	143
Melting Temperature	ISO 3146	°C	340



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## Electical Properties

Volume resistivity	IEC 60093	$\Omega \cdot \text{cm}$	$\geq 10^{13}$
Surface resistivity	IEC 60093	$\Omega$	$\geq 10^{13}$
Dielectric constant at 1 MHz	IEC 60250	-	3.2
Dielectric strength	IEC 60243-1	kV/mm	16
Tracking resistance	IEC 60112	V	CTI 125

## Additional Data

Bondability	-	-	+
Physiological indifference	EEC FDA	- -	+ +
Flammability	UL 94	-	V-0
Limiting Oxygen Index	ASTM D2863	%	35
UV stabilisation	-	-	0



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