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DATASHEET

MATERIAL PTFE

TECHNICAL DETAILS

Density		DIN 53 479	g/cm^3	2.18
Moisture absorption (23ºC/50RH)		DIN EN ISO 62	%	<0.05
Water absorption to equilibrium		DIN 53 495	%	
Flammability acc. To UL standard 94				V0
Tensile strength at yield		DIN EN ISO 527	MPa	25
Elogation at yield			%	
Tensile strength at break			MPa	
Elogation at break		DIN EN ISO 527	%	>50
Modulus of elasticity in tension		DIN EN ISO 527	MPa	700
Modulus of elasticity after flexural test			MPa	
Hardness		DIN 53 456		30
Impact strength 23ºC		DIN EN ISO 179	KJ/m^2	n.b.
Creep rupture strength after 1000 h with static load			MPa	5
Time yield limit for 1%elogation after 1000h			MPa	1.58
Co-efficient of friction p=0.05 N/mm^2 v=0.6 m/s on steel, hardened and ground				0.08-0.10
Wear p=0.05 N/mm^2 v=0.6 m/s on steel, hardened and ground			µm/km	21
Crystalline melting point			ºC	
Glass transition temperature		DIN 53 765	ºC	-20
Heat distortion temperature	Method A	ISO-R75 (DIN 53 461)	ºC	55
	Method B	ISO-R75 (DIN 53 461)	ºC	121
Thermal conductivity (23ºC)			W/(K·m)	0.25
Max. Service temperature	Short term		ºC	260
	Long term		ºC	260
Specific heat (23ºC)			J/g.K	1
Coefficient of thermal expansion (23-55ºC)		DIN 53 752	10^{-5} 1/K	12
Dielectric constant (10^6 Hz)		DIN 53 483		2.1
Dielectric loss factor (10^6 Hz)		DIN 53 483		0.0002
Specific volume resistance		DIN IEC 60093	Ω*cm	10^16
Surface resistance		DIN IEC 60093	Ω	10^16
Dielectric strength		DIN 53 481	kV/mm	48
Resistance to tracking		DIN 53 480		KA 3c KB>600