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PPS
datasheet

technical specifications

Density		DIN 53 479	g/cm^3	1.35
Moisture absorption (23°C/50RH)		DIN EN ISO 62	%	0.01
Water absorption to equilibrium			%	
Flammability acc. to UL standard 94				V0
Tensile strength at yield		DIN EN ISO 527	MPa	75
Elogation at yield			%	
Tensile strength at break			MPa	
Elogation at break		DIN EN ISO 527	%	4
Modulus of elasticity in tension		DIN EN ISO 527	MPa	3700
Modulus of elasticity after flexural test		DIN EN ISO 178	MPa	3600
Hardness		DIN 53 456		190
Impact strength 23°C		DIN EN ISO 179	KJ/m^2	50
Creep rupture strength after 1000 h with static load			MPa	
Time yield limit for 1%elogation after 1000h			MPa	
Wear p=0.05 N/mm^2 v=0.6 m/s on steel, hardened and ground			µm/km	
Crystalline melting point		DIN 53 765	°C	280
Glass transition temperature		DIN 53 765	°C	90
Heat distortion temperature	Method A	ISO-R75 (DIN 53 461)	°C	110
	Method B		°C	
Thermal conductivity (23°C)			W/(K·m)	0.25
Max. Service temperature	Short term		°C	260
	Long term		°C	230
Specific heat (23°C)			J/g.K	
Coefficient of thermal expansion (23-55°C)		DIN 53 752		
Specific volume resistance		DIN IEC 60093	Ω*cm	10^13
Surface resistance		DIN IEC 60093	Ω	10^15
Dielectric strength			kV/mm	

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