



## PP BOARD DATA SHEET

Properties	Unit	Test method DIN EN	Value
<b>Mechanical</b>			
Density	g/cm <sup>3</sup>	527/D79	91
Tensile strength at yield	MPa	527/D638	30
Tensile strength at break	MPa	527/D638	
Elongation at break	%	527/D638	50
Modulus of elasticity in tension	MPa	527/D638	1600
Modulus of elasticity in flexure	MPa	178/D790	
Ball indentation hardness	MPa	Jan-39	80
Impact strength	kJ/m <sup>2</sup>	179/D256	No br.
Creep rupture strength after 1000 hrs with static load	MPa		22
Time yield limit for 1% elongation after 1000 hrs.	MPa		4
Coefficient of friction against hardened and ground steel $\mu=0.05$ N/mm <sup>2</sup> , $v=0.6$ m/s			0,3
Wear conditions as above	um/km		11
<b>Thermal</b>			
Crystalline melting point	oC	DN53736	165
Glass transition temperature	c	DIN53736	-18
Heat distortion temperature Method A Method B	PCC	R 75R75	65105
Max. service temperature Short term Long term	Cc		130140100
Coefficient of thermal conductivity	W/(m.K)		0.22
Specific heat	J/(g.K)		1.7
Coefficient of thermal expansion	10/K	DEN 53483/D696	17
<b>Electrical</b>			



Dielectric constant at 10 Hz		DDN53483	2.25
Dielectric loss factor at 10 Hz		DIN53483	0.0002
Specific volume resistance	Q. cm	DIN 60093	>10
Surface resistance	Q	DIN 60093	105
Dielectric strength 1 mm	kVimm	ASTM149	>40
Tracking resistance		53 48e	KA3c
Others			
Moisture absorption standard)	%	2	.0,1
Water absorption at saturation 23 °C	%	62-	0.03
Resistance to hot water, washing soda			resistant
Flammability (UL standard 94)			HB
Resistance to weathering			Not resistant
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