

## PVC

The following information corresponds with our current knowledge and indicates our products and possible applications. We cannot give a legally binding guarantee of certain properties or the suitability for a specific application. Existing commercial patents must be observed. A definitive quality guarantee is given in our general conditions of sales. Unless otherwise stated, these values represent averages taken from injection moulding samples. We reserve the right of technical alterations.

Properties	Unit	Test method DIN EN ISO / ASTM	
<b>Mechanical</b>			
Density	g/cm <sup>3</sup>	527 / D 792	1.44
Tensile strength at yield	MPa	527 / D 638	58
Tensile strength at break	MPa	527 / D 638	
Elongation at break	%	527 / D 638	15
Modulus of elasticity in tension	MPa	527 / D 638	3000
Modulus of elasticity in flexure	MPa	178 / D 790	
Ball indentation hardness	MPa	2039 / 1	82
Impact strength	kJ/m <sup>2</sup>	179 / D 256	no br.
Creep rupture strength after 1000 hrs with static load	MPa		
Time yield limit for 1% elongation after 1000 hrs	MPa		0.6
Coefficient of friction against hardened and ground steel p = 0.05 N/mm <sup>2</sup> , v = 0.6 m/s	-		
Wear conditions as above	µm/km		
<b>Thermal</b>			
Crystalline melting point	°C	DIN 53 736	
Glass transition temperature	°C	DIN 53 736	~70
Heat distortion temperature Method A Method B	°C °C	R 75 R 75	
Max. service temperature short term long term	°C °C		60
Coefficient of thermal conductivity	W/(m K)		0.159
Specific heat	J/(g K)		1.7-2
Coefficient of thermal expansion	10 <sup>-5</sup> /K	DIN 53 483 / D 696	8
<b>Electrical</b>			
Dielectric constant at 10 <sup>5</sup> Hz		DIN 53 483	
Dielectric loss factor at 10 <sup>5</sup> Hz		DIN 53 483	
Specific volume resistance	Ω cm	DIN 60093	10 <sup>13</sup>
Surface resistance	Ω	DIN 60093	
Dielectric strength 1 mm	kV/mm	ASTM 149	39
Tracking resistance		53 480	
<b>Miscellaneous</b>			
Moisture absorption: Equilibrium in standard atmosphere (23 °C / 50 % relative humidity)	%	62	
Water absorption at saturation at 23°C	%	62	
Resistance to hot water, washing soda			
Flammability according to UL standard 94			B1
Resistance to weathering			Black is resistant