



# PVC Grey

UPVC - Polyvinylchloride

Colour: Grey

Density: 1.47g/cm<sup>3</sup>

## Material Data Sheet

Mechanical Properties	Value	Unit	DIN/EN/ISO
Tensile strength at yield	55	MPa	527/D638
Elongation at yield	3	%	527
Modulus of elasticity after tensile test	3100	MPa	527/D638
Impact strength	No br.	kJ/m <sup>2</sup>	179/D256
Creep rupture strength after 1000hrs with static load	-	MPa	-
Time yield limit for 1% elongation after 1000hrs	0.6	MPa	-
Coefficient of friction against hardened and ground steel P= 0.05 N/mm <sup>2</sup> , v= 0.6m/s	-	-	-
Ball indentation hardness	82	MPa	2039-1

Thermal Properties	Value	Unit	DIN/EN/ISO
Glass transition temperature	~70	°C	53736
Crystalline melting point	-	°C	53736
Service temperature (short term)	-	°C	-
Service temperature (long term)	60	°C	-
Coefficient of thermal expansion	8	10 <sup>-5</sup> K	53483/D696
Specific heat	1.7-2	J/(g*K)	-
Coefficient of thermal conductivity	0.159	W/(K*m)	-

Electrical properties	Value	Unit	DIN/IEC/ASTM
Surface resistance	>10 <sup>13</sup>	Ω	60093
Dielectric strength 1mm	39	kV/mm	149
Dielectric constant (10 <sup>6</sup> Hz)	3.2	-	53483/250

Other properties	Value	Unit	DIN/EN/ISO/IEC
Water absorption @ saturation	0.2	%	62
Resistance to hot water, washing soda	-	-	-
Resistance to weathering	-	-	-
Flammability (UL94)	0	-	60695-11-10



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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.