

PVC (POLYVINYL CHLORURE)**MATERIAL DATA SHEET**

PROPERTIES	Test methods	Units	VALUES
Colour	-	-	Natural/grey/black
Density	ISO 1183	g/cm ³	1.4
Water absorption still saturation	ISO 62	%	0.2
Moisture pick up till saturation (23°C)	ISO 62	%	0.2
Thermal Properties			
Thermal conductivity at 23°C	DIN 52612	W/(K.m)	0.17
Coefficient of linear thermal expansion:			
- average value between 23 and 100°C	ASTM D696	µm/(m*°K)	80
Temperature of deflection under load:			
- method A: 0.45 MPa	ISO 75	°C	69
Vicat softening temperature VST/B/50	ISO 306	°C	73
Max. allowable service temperature in air	-	°C	60
Min. service temperature	-	°C	-40
Mechanical Properties at 23°C			
Tension test			
- tensile stress at yield	ISO 527	MPa	49
- percentage elongation at break	ISO 527	%	30
- percentage elongation at yield	ISO 527	%	10
- tensile strength at break	ISO 527	MPa	30
Charpy impact strength (notched)	ISO 179	kJ/m ²	50
Shore hardness	DIN 53505	Scale D	78
Modulus of elasticity	ISO 527	Mpa	2600
Electrical Properties at 23 °C			
Volume resistivity	IEC 60093	Ohm * m	> 10 ¹⁵
Surface resistivity	IEC 60094	Ohm	> 10 ¹³
Dielectric constant at 1MHz	IEC 60250	Abs	3
Dielectric loss factor 1 MHz	IEC 60250	Tan δ	0.01
Dielectric strength (2 mm)	IEC 60243	KV/mm	20-40

Note: 1 g/cm³ = 1,000 kg/m³ ; 1 MPa = 1 N/mm² ; 1 kV/mm = 1 MV/m.NA: not applicable

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