

► Main features

PVC is one of the most used plastic materials due to its low cost and ease of processing. It is an high density material, very hard and durable, with a low water absorption rate. It has high chemical stability and an high modulus of elasticity. Like PP, PVC is also easy to work and weld.

► Applications

Tubs
Extractor hood
Piping
Carter
Spacers
Mechanical details in general

► Application sectors

Chemical
Mechanic
Electric and
Semiconductors
Pumps and fluid management

► FDA Compatibility NO

► Available colours



PHYSICAL PROPERTIES

REGULATIONS

UM

PVC

PHYSICAL PROPERTIES			
Density	DIN53479	g/cm ³	1.45
Water absorption (50% at 23° C)	**DIN53495	%	0.2
Maximum temp. for use in the air for short duration	-	°C	-
Maximum temperature of use in continuous air	-	°C	60
Minimum temperature of use in continuous air	-	°C	-15

MECHANICAL PROPERTIES			
Yield stress/tensile strength (σ_s)	*DIN53455 (4)	N/mm ²	58
Elongation at break (ϵ_s)	ISO 527	%	20
Breaking load (σ_r)	DIN53455	N/mm ²	-
Elongation at break (ϵ_r)	ISO 527	%	20
Impact resistance	*DIN53453	kJ/m ²	NR
Impact resistance, notched test	*DIN53453	kJ/m ²	4
Rockwell hardness	DIN53465	Scala M	-
Compression test, load 1% deform. nominal	*DIN53454 (3)	N/mm ²	-
Elasticity module	*DIN53457 (5)	N/mm ²	3000

THERMIC PROPERTIES			
Melting temperature	-	°C	-
VICAT softening temperature	DIN53460	°C	75
Deformation temperature under bending load	DIN53461	°C	68
Coefficient of linear thermal expansion (α)	DIN53752	K ⁻¹ X10 ⁻⁴	0.8
Thermal conductivity at 23°	DIN52612	W/(Kxm)	0.15

ELECTRICAL PROPERTIES			
Volume resistivity	**DIN53482	Ω /cm	10 ¹⁵
Surface resistivity	**DIN53482	Ω	10 ¹³
Dielectric constant at 10 ³ HZ (on thickness of 1 mm.)	**DIN53483	-	-
Dielectric dissipation factor (tan δ) a 10 ³ HZ	**DIN53483	-	-
Dielectric strength (on thickness of 1 mm.)	IEC 60243	kV/mm	12
Electrical leakage resistivity	112/030TI	-	-

OTHER PROPERTIES			
Possibility of gluing	-	-	Yes
Absence of physiological risks	FDA	-	No
Dry friction coefficient on steel	DIN53375	-	-
Flammability	UL94	-	Bi (1)
UV stability	-	-	-

* : MEASUREMENTS ON TEST TUBES IN ANHYDROUS STATE

(3): ON CYLINDERS Ø 12X30 MM

(4): TRACTION SPEED 5 MM/MIN

** : MEASUREMENTS ON EQUILIBRIUM TUBES
WITH U.R. 50% AT A TEMPERATURE OF 23° C

(5): TRACTION SPEED 1 MM / MIN

(6): TRACTION SPEED 20 MM/MIN