

Physical properties PVC-U

Product characteristics:

- Very good chemical resistance
- Flame retardant, self-extinguishing after removal of flame
- High rigidity

Product applications:

- Chemical engineering and tank building
- Electrical industry
- Construction industry

General properties	Test method	Unit	Value
Color			
Density	DIN EN ISO 1183-1	g/cm ³	1.45
Flammability (Thickness 3 mm / 6 mm)	UL 94		V0 / V0
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	45
Elongation at break	DIN EN ISO 527	%	15
Tensile modulus of elasticity	DIN EN ISO 527	MPa	3000
Notched impact strength	DIN EN ISO 179	kJ/m ²	2
Shore hardness	DIN EN ISO 868	scala D	79
Thermal properties			
Thermal conductivity	DIN 52612-1	W/(m*K)	0.20
Coefficient of linear thermal expansion	DIN 53752	10 ⁻⁶ /K	80
Service temperature, long term	Average	°C	0...60
Service temperature, short term (max.)	Average	°C	70
Electrical properties			
Dielectric constant	IEC 60250		3
Dielectric dissipation factor (10 ⁶ Hz)	IEC 60250		0.02
Volume resistivity	IEC 60093	Ω*cm	10 ¹⁵
Surface resistivity	IEC 60093	Ω	10 ¹³

This table is a valuable help in the choice of a material. The data listed here fall within the normal range of products properties, but they should not be used to establish material specification limits nor used alone as the basis of design.