



Material: U-PVC

Unplasticised Polyvinyl Chloride (U-PVC) is rated self-extinguishing, has an exceptional chemical resistance and is easy to machine. With good mechanical and tensile strength and a high degree of stability makes this easily weldable product one of the most versatile plastics available.

Technical Specification

Property	Test Method	Units	Value
Colour	-	-	Grey/Red/Black
Density	ISO 1183	g/cm ³	1.45
Water Absorption	DIN 53495	%	0.02
Chemical Resistance	DIN 53476	-	DIN 8061
Service Temp Upper	-	°c	60
Service Temp Lower	-	°c	0
Tensile strength at yield	ISO 527	MPa	55
Elongation at yield	ISO 527	%	3
Tensile strength at break	ISO 527	MPa	30
Elongation at break	ISO 527	%	33
Impact Strength	ISO 179	kJ/m ²	No break
Notched Impact Strength	ISO 179	kJ/m ²	3
Rockwell hardness	ISO 2039-1	MPa	120
Elastic modulus	ISO 527	MPa	3000
Vicat Softening temp VST/B/50	ISO 306	°c	75
Heat Deflection temp HDT/B	ISO 75	°c	72
Linear thermal expansion coefficient	DIN 53752	K ⁻¹ x10 ⁻⁴	0.8
Thermal Conductivity at 20°c	DIN 52612	W/(Km)	0.14
Volume Resistivity	VDE 0303	Ohm/cm	>10 ¹⁵
Surface Resistance	VDE 0303	Ohm	>10 ¹³
Dielectric Constant @ 1MHZ	DIN 53483	-	3
Dielectric loss factor @ 1MHZ	DIN 53483	-	0.01
Dielectric Strength	VDE 303	kV/mm	20-40
Tracking Resistance	DIN 53480	-	KB600
Bondability	-	-	Yes
Physiology indifference	FDA	-	No
Friction Coefficient	DIN 53375	-	0.6
Flammability	UL94	-	V-O

Availability:

Available in a wide variety of sheets, blocks, rods and profiles. Reinforced (PVC-HI), Electrically Conductive (PVC-U ESD) and Clear (PVC-U Clear) versions are available. Please call for further details.

Applications:

Chemical storage tanks, Ventilation Systems, Thermoformed Packaging, Fans, Pumps and valves, Machined components, Wall cladding, Display Products.