

Technical Properties for PVC-U

	Norm	Unit i.e.	Value
<u>Physical Properties</u>			
Specific Gravity	ISO 1183	g/cm ³	1.36
Water Absorption	DIN 53495	%	0.2
Chemical resistance	-	-	DIN 8061
Maximum service temp	-	degrees C	60
Minimum service temp	-	degrees C	-15

Mechanical Properties

Tensile strength at yeild	ISO 527	MPa	55
Elongation at yeild	ISO 527	%	3
Tensile strength at break	ISO 527	MPa	30
Elongation at break	ISO 527	%	>10
Impact strength	ISO 179	kJ/m ²	0.B.
Notch impact strength	ISO 179	kJ/m ²	3
Ball indentation (Rockwell)	ISO 2039	MPa	120
Shore D	DIN 53505	-	82
Flexural strength	ISO 178	MPa	90
Modulus elasticity	ISO 527	MPa	3000

Thermal Properties

Vicat softening temp	ISO 306	degrees C	75
Heat deflection Temp	ISO 75	degrees C	72
Coefficient of expansion	DIN 53752	K-1 x 10-4	0.8
Thermal conduct at 20	DIN 52612	W/(mxK)	0.14

Electrical Properties

Volume resistivity	VDE 0303	x cm	>10 15
Surface resistivity	VDE 0303	-	>10 13
Dielectric constant @ 1MHz	DIN 53483	-	3
Diel. loss factor @ 1 MHz	DIN 53483	-	0.01
Dielectric strength	VDE 0303	kV/mm	20-40
Tracking resistance	DIN 53480	-	KB 600

Additional Data

Bondability	-	-	+
Friction Coeficient	DIN 53375	-	0.6
Flamability	UL 94	-	V-O

Chemical properties

Acid resistance			+
Hydroxid resistance (dilute)			+
Hydrocarbonat resistance			+
CKW resistance			-
Aromatic resistance			0
Ketone resistance			-
Resistance to hot water			-