

PVC Rigid

Electrical Properties

Property	Test Method	Unit	Value
Dielectric constant E (at 1kHz)	VDE 0303 T4	-	3.4
Dielectric dissipation factor tan (at 1kHz)	VDE 0303 T4	-	0.016
Surface resistance	DIN VDE 0303 T30/DIN IEC 93	Ω	>10 ¹⁵
Volume resistivity	DIN VDE 0303 T30/DIN IEC 93	Ω.m	>10 ¹⁴
Dielectric strength	DIN VDE 0303 T21 1.0mm sheet	KV/mm	>=27
Tracking resistance	DIN IEC 112	Grade	CTI 600
Arc resistance	DIN VDE 0303 T5	Ident No	2.2.2.2

Mechanical Properties

Property	Test Method	Unit	Value
Apparent Density	DIN 53479/ISO 1183	g/cm ³	1.43
Tensile Strength at Yield	DIN 53455/ISO 527	MPa	>=48
Elongation at Tear	DIN 53455/ISO 527	%	>=20
Flexural Strength	DIN 53452/ISO 178	MPa	>=75
Compressive Strength	DIN 53454/ISO 3605	MPa	>=65
Modulus of Elasticity	DIN 5 4576/ISO 527-2/IA/50	MPa	>=2500
Notched Impact Strength	DIN 53453/ISO 179-1ePA	kJ/m ²	>=6
Impact Strength at:	DIN 53453/ISO 179	kJ/m ²	
0°C			no failure
-20°C			no failure
-30°C			no failure
-40°C			-
Ball Indentation Hardness (358 N/30s)	DIN 53456/ISO 2039	MPa	90
Shore Hardness D	DIN 53505		80

Other Properties

Property	Test Method	Unit	Value
Water Absorption after 7 days	DIN 53495	%	<0.08
Fire Behaviour	DIN 4102 - B 1		1-2mm
	NFP 92-501/M1 (F)		1-2mm
	UL 94 (USA) File E100599		>=1mm
	Fire characteristic (CH) 5.2		-
	CSE/RF2/75 A(I) EG/VO 1935/2004	Class 1	1-3mm
Physiological Evaluation			Generally recognised as safe

Thermal Properties

Property	Test Method	Unit	Value
Vicat Softening Temperature	DIN 53460/ISO 306 (process B50)	°C	>=72
Deflection Temperature	DIN 53461/ISO 75	°C	66
Co-efficient of Linear Expansion from -30°C to +50°C	DIN 53752 (process Ae)	mm/mK	0.08
Thermal Conductivity from 0°C to +60°C	DIN 52612	W/mK	0.16

Product Forms

Standard Sheet

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