

Frame extension elements for plastic lifting sliding doors Standard

PVC Veka	Symbol	Test method	Unit	Value
Gross density	ρ_a	DIN EN ISO 1183	kg/m ³	1400–1460
Thermal conductivity	λ_D	DIN 52612	W/mK	0.160
Modulus of elasticity		ISO 527	MPa	3000
Impact resistance		ISO 179/1eU	kJ/m ²	Without break
Notch impact resistance		ISO 179/1eA	kJ/m ²	9.0
Tensile strength		ISO 527	MPa	52
Bending strength		ISO 178	MPa	77.8
Shore hardness D		ISO 868		81
Surface resistance		DIN IEC 60167	ROE [Ω]	>2.00E+14
Contact resistance		DIN IEC 60093	RD [Ωcm]	1.74E+16
Dielectric strength		DIN IEC 243	[kV/mm]	16.8
Dielectric constant ϵ_r		DIN 53483		3.0–3.6
Expansion coefficient		DIN 53752	[10 ⁴ /K]	7 · 10 ⁻⁵
Compressive strength		DIN 53421	N/mm ²	70
Vicat softening point		ISO 306 (B 50)	°C	72
Heat distortion temperature		ISO 75-2 (1.8 MPa)	°C	60
Water absorption		ISO 62 (after 216 hrs)	%	0.1

PVC Internorm	Symbol	Test method	Unit	Value
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Thermal conductivity	λ_D	DIN 52612	W/mK	0.160
Modulus of elasticity		ISO 527	MPa	3000
Impact resistance		ISO 179/1eU	kJ/m ²	Without break
Notch impact resistance		ISO 179/1eA	kJ/m ²	9.0
Tensile strength		ISO 527	MPa	52
Bending strength		ISO 178	MPa	77.8
Shore hardness D		ISO 868		81
Surface resistance		DIN IEC 60167	ROE [Ω]	>2.00E+14
Contact resistance		DIN IEC 60093	RD [Ωcm]	1.74E+16
Dielectric strength		DIN IEC 243	[kV/mm]	16.8
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Heat distortion temperature		ISO 75-2 (1.8 MPa)	°C	60
Water absorption		ISO 62 (after 216 hrs)	%	0.1

PVC Kömmerling	Symbol	Test method	Unit	Value
Gross density	ρ_a	DIN EN ISO 1183	kg/m ³	~1430
Thermal conductivity	λ_D	DIN EN ISO 220077	W/mK	0.160
Tensile yield stress (tensile strength)		DIN EN ISO 527	MPa	≥45
Elongation at break		DIN EN ISO 527	%	≥20
Bending strength		DIN EN ISO 178	MPa	≥70
Compressive strength		DIN EN ISO 844	MPa	≥60
Elastic modulus		DIN EN ISO 527-2/1A/50	MPa	≥2500
Notch impact resistance		DIN EN ISO 179-1ePA	kJ/m ²	≥8
Impact resistance down to -40°C		DIN EN ISO 179	kJ/m ²	Without break
Ball hardness (358 N/30 s)		DIN EN ISO 2039	MPa	~90
Vicat softening point		DIN EN ISO 306 Method B50	°C	≥72
Heat distortion temperature		DIN EN ISO 75	°C	~66
Linear expansion coefficient, -30°C to +50°C		DIN EN ISO 11359-2 Method Ae	mm/mK	0.08
Dielectric constant E _r (at 1 kHz)		VDE 0303 T4		3.4
Dielectric loss factor tan δ (at 1 kHz)		VDE 0303 T4		0.016
Surface resistance		DIN VDE 0303 T30 DIN IEC 93	Ω	>10 ¹⁵
Specific contact resistance		DIN VDE 0303 T30 DIN IEC 93	Ωm	>10 ¹⁴
Dielectric strength		DIN VDE 0303 T21 1 mm board	kV/mm	≥27
Tracking		DIN IEC 112	Level	CTI 600
Arc resistance		DIN VDE 0303 T5	Index number	2.2.2.2
Water absorption after 7 days		DIN 53495	%	<0.08
Physiological assessment				Unobjectionable

PVC Finstral	Symbol	Test method	Unit	Value
Gross density	ρ_a	DIN 53479/ISO 1183	kg/m ³	~1410
Thermal conductivity	λ_D		W/mK	0.160
Fire behaviour		DIN 4102 (D)		B1
Tensile yield stress		DIN 53455/ISO 527	N/mm ²	45
Elongation at break		DIN 53455/ISO 527	%	20
Elasticity modulus		DIN 53457/ISO 527-2	N/mm ²	2500
Compressive strength		DIN 53454/ISO 3605	N/mm ²	65
3.5% bending stress		DIN 53452/ISO 178	N/mm ²	60
Impact resistance		DIN 53453/ISO 179	kJ/m ²	No break at -20°C
Notch impact resistance		DIN 53453/ISO 179	kJ/m ²	8
Flexural creep modulus				20°C ~ 1700
Time under stress: 1 year			N/mm ²	40°C ~ 1100
Bending stress: <5 N/mm ²				60°C ~ 300
Ball hardness		DIN 53456/ISO 2039	N/mm ²	~120
Vicat softening point		DIN 53460/ISO 306 Method B50	°C	75
Heat distortion temperature		DIN EN ISO 75 Method A	°C	~70
Heat distortion temperature		DIN EN ISO 75 Method B	°C	~74
Linear expansion coefficient, 20°C to 60°C		DIN 53752	K ⁻¹	~70 · 10 ⁻⁶
Specific contact resistance		DIN IEC 60093 VDE 0303-30	Ωcm	>10 ¹⁵
Surface resistance		DIN IEC 60093 VDE 0303-30	Ω	>10 ¹³
Dielectric constant ϵ_r		DIN 53483 VDE 0303, part 4	At 1 kHz	~3.2
Dielectric loss factor tan δ		DIN 53483 VDE 0303, part 4	At 1 kHz	~0.02
Tracking		DIN IEC 112 VDE 0303, part 1	CTI	600
Dielectric strength		DIN 53481 VDE 0303, part 2	kV/mm Sample: 3 mm thick	≥12
Water absorption		DIN 53495/ISO 62 Method CL/100	mg/cm ²	≤3
Service temperature range		Benchmark		-30°C to +60°C
Resistance to weather (Radiation dosage: 0.8 MJ/cm ² in xenon 450)		DIN 53387 DIN EN 20105-A02 Grey scale		Level 4–3 (white only)
Physiological harmlessness				No

Expanded rigid polystyrene foam (EPS)	Symbol	Test method	Unit	Value
Gross density	ρ_a	1602	kg/m ³	15
Thermal conductivity	λ_d	279	W/(m·K)	0.038
Specific thermal capacity	c		Wh/(kg·K)	0.39
Water vapour diffusion resistance factor	μ	12086		40
Fire behaviour classification in acc. with EN		13501-1		E
Fire behaviour classification in acc. with VKF		VKF	BKZ	5,1
Fire behaviour group		VKF		RF2 (cr)
Compression stress at 10% compression	$\circ 10$	826	kPa ³⁾	≥ 60
Creep behaviour under pressure (50 years, compression 2%)	\circ_c	1606	kPa ³⁾	12
Top application limit temperature, non-weight-bearing			°C	75
Cell content				Air

Plywood	Symbol	Test method	Unit	Value
Classification				IW67
Gross density	ρ_a	EN 323	kg/m ³	~420
Thermal conductivity	λ_d		W/mK	0.130
Emission category		UNI EN 717/2	mg HCHO/m ² h	E1
Bending strength (longitudinal)		EN 310	N/mm ²	24
Bending strength (lateral)		EN 310	N/mm ²	30
Elasticity modulus (longitudinal)		EN 310	N/mm ²	2800
Elasticity modulus (lateral)		EN 310	N/mm ²	3800