

Substructure elements for plastic lifting sliding doors

Polyurethane	Symbol	Test method	Unit	Value
Material	CFC-, HCFC- and formaldehyde-free polyurethane product			
Resistance to ageing	Mildew- and rot-resistant			
Gross density	ρ_a		kg/m ³	550 ± 50
Thermal conductivity	λ_D	EN 12667	W/mK	0.076
Construction material class		DIN 4102, part 1		B2
Fire behaviour		DIN EN 13501-1		Class E
Bending strength			N/mm ²	Approx. 7.8
Elastic modulus			N/mm ²	Approx. 500
Screw retention			N	Approx. 650
Thickness swelling (after 24 hrs immersion in water)			%	Approx. 1
Water absorption (after 24 hrs immersion in water)			%	Approx. 5
Length alteration due to moisture			mm/m	±2
Length expansion coefficient in the range -20 °C to +60 °C				Approx. 28.375·10 ⁻⁶ /K
Water vapour diffusion resistance factor	μ			Approx. 12
Residual moisture			%	Approx. 2–4
Thickness tolerance, unsanded			mm	±0.4
Thickness tolerance, sanded			mm	±0.2
Applicable in temperature range			°C	-50 to +100

Intensely expanded polystyrene rigid foam (EPS perimeter)	Symbol	Test method	Unit	Value
Gross density	ρ_a	1602	kg/m ³	30
Thermal conductivity	λ_D	279	W/(mK)	0.033
Specific thermal capacity	c		Wh/(kg·K)	0.39
Water vapour diffusion resistance factor	μ	12086		70
Thermal length expansion coefficient			K ⁻¹	5–7·10 ⁻⁵
Water absorption after long-term submersion	W_{it}	12087	%	≥3
Water absorption through diffusion	W_{dV}	12088	%	≥5
Fire behaviour classification in acc. with EN		13501-1		E
Fire behaviour group		VKF		RF3 (cr)
Compression stress at 10% compression	σ_{10}	826	kPa ²⁾	≥150
Top application limit temperature, non-weight-bearing			°C	75
Cell content				Air