Physical material properties
of the applied materials

FRINORM®

Frame extension elements for wooden and wood-metal windows
Moisture-resistant

Plywood	Symbol	Test method	Unit	Value
Classification				AW100
Gross density	ρ_a	EN 323	kg/m³	~420
Thermal conductivity	λ_D		W/mK	0.130
Emission category		UNI EN 717/2	mg HCHO/m²h	E1
Bending strength (longitudinal)		EN 310	N/mm²	28
Bending strength (lateral)		EN 310	N/mm²	32
Elasticity modulus (longitudinal)		EN 310	N/mm²	3600
Elasticity modulus (lateral)		EN 310	N/mm²	3800

PUR rigid foam	Symbol	Test method	Unit	Value
Gross density	ρ_a	EN 1602	kg/m³	31–33
Thermal conductivity	λ_D	EN 12667	W/mK	0.022–0.024
Fire behaviour		DIN 4102		B3
Compressive strength		EN 826	kPa	200–240
Bending strength		EN 12089	kPa	250–300
Transverse tensile strength		EN 1607	kPa	320–380
Shear strength		EN 12090	kPa	150–200
Shear resistance		EN 12090	kPa	170–230
Closed-cell structure		ISO 4590	%	90–95
Water absorption		EN 12087	%	3
Applicable in a temperature range			°C	From –20 to +120

Wood	Symbol	Test method	Unit	Value
Type	Spruce			
Certification	PEFC-certified			
Thermal conductivity	λ_D		W/mK	0.140

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