



## Physical Data

Test method	Assessment	Standard value	Actual value	
Light-fastness and weather resistance(NT surface)				
EN 438-2 light fastness under xenon arc lamp	Blaumaßstab	≥ 6	≥ 7	
DIN 50018 „acid rain“ damp heat alternating atmosphere with SO <sub>2</sub> - containing atmosphere. 50 cycles KFW/0,25	DIN 54001		4-5	
EN ISO 4892-2 artificial weathering - 3,000 hrs (xenon test)	Grey scale EN 20105-A02 Grey scale		≥ 4	
Properties	Test method	Unit of measurement	Standard value	Actual value
<b>Mechanical Properties</b>				
Apparent density	DIN 52350	g/cm <sup>3</sup>		1.45
Flexural strength	EN 438	N/mm <sup>2</sup>	> 80	≥ 90
Modulus of elasticity	EN 438	N/mm <sup>2</sup>	> 9.000	≥ 9.500
Tensile strength	EN 438	N/mm <sup>2</sup>	> 60	≥ 80
Coefficient of thermal expansion	DIN 52328	1/K		18 x 10 <sup>-6</sup>
Dimensional stability at elevated temperature	EN 438 for 6 mm	lengthwise % crossways %	< 0.3 < 0.6	≤ 0.15 ≤ 0.25
Thermal conductivity		W/mK		0.3
Water vapor diffusion resistance		μ		About 17200
<b>Fire behavior</b>				
Europe	EN 13501-1	MA39-VFA Vienna	Euroclass B-s2, d0 for 6-10 mm	
Austria	ÖNORM B3800/Part 1	Austrian Plastics Institute	B1, Q1, TR1, ≥ 2 mm	
Switzerland		EMPA Dübendorf	Fire classification 5.3 für 6 - 10 mm	
Germany	DIN 4102	Institute for Construction-Berlin	B1 for 4 - 10 mm	
France	NFP 92501	LNE	M1 for 2 - 10 mm	
Spain	UNE 23-727-90	LICOF	M1 for 6 - 10 mm	
<b>Zulassungen</b>				
Facade permit Germany		Institute for Construction-Berlin	6, 8, 10 mm, Permit no. Z-33.2- 16	
ETB guidelines for building components which safeguard against falls June 1985 Balcony railings 6, 8, 10 or 13 mm panel thickness)		TU Hannover	Passed (according to building regulation and railing construction	
Avis technique France		CSTB	6, 8, 10 und 13 mm, Wood- and metal sub-construction Permit no. 2/03-1035, 2/03-1036	

Please observe the building regulations which apply in each case; we accept no liability regarding this.