

Technical data sheet

PET Laminated MDF Ultra Matt

Technical characteristics	Unit	Thickness [mm]					Standard	
		>6+9	>9+12	>12+19	>19+30	>30+40		
General requirements								
1	Density	kg/m ³ ± 7%	740	720	710		EN 323	
2	Tolerance of thickness	mm	± 0.2		± 0.3		EN 324-1 EN 622-1	
3	Tolerance on length and width	mm/m	+ 2 mm/m; maximum + 5 mm					EN 324-1 EN 622-1
4	Squareness tolerances	mm/m	2					EN 324-2 EN 622-1
5	Edge straightness tolerance	mm/m	1,5					EN 324-2 EN 622-1
General requirements – mechanical properties								
6	Swelling in thickness 24h	%	≤ 17	≤ 15	≤ 12	≤ 10	≤ 8	EN 317 EN 622-5
7	Bending strength	N/mm ²	≥ 23	≥ 22	≥ 20	≥ 18	≥ 17	EN 310 EN 622-5
8	Modulus of elasticity in bending	N/mm ²	≥ 2700	≥ 2500	≥ 2200	≥ 2100	≥ 1900	EN 310 EN 622-5
9	Internal bond	N/mm ²	≥ 0.65	≥ 0.60	≥ 0.55		≥ 0.50	EN 319 EN 622-5
10	Formaldehyde release – E1	mg/m ² h	≤ 3.5					EN 12460-3 EN 622-1
11	Moisture content	%	4 ÷ 11					EN 322 EN 622-1
12	Bonding strength	N/mm ²	≥ 0.9					EN 311
Technical characteristics		Unit	Value					Standard
General requirements – Optical properties								
13	Chemical resistance	rate	1 B					DIN EN 12720 DIN 68861/1
14	Resistance against Micro Scratching	%	≤ 25 % alternation of gloss					DIN CEN/TS 16611, Method A

15	Resistance against Micro Scratching	rate	Class 5	DIN CEN/TS 16611, Method B
16	Resistance against Scratching	N	4 D (> 1.0, to ≤ 1.5 N) ¹	DIN EN 15186, Method B DIN 68861/4
17	Resistance against Wet Heat - 70°C	rate	Level 5	DIN EN 12721
18	Resistance against Dry Heat – 70 °C	rate	Level 5	DIN EN 12722
19	Color Consistency (Solid white beige colors)	rate	$\Delta E \leq 0.5$ $\Delta L \pm 0.3$ $\Delta a \pm 0.2$ $\Delta b \pm 0.3$	DIN 53236 (45/0) DIN 6174
20	Gloss level 60° measuring head, measuring crosswise	units	dark / intense colors: 3 ± 1 light colors: 4 ± 1	DIN EN ISO 2813
21	Light fastness		≥ 7	DIN EN ISO 4892-2 DIN EN ISO 105 B 02
22	Fault Definition	Optical deviations are regarded as faults if they are recognizable with the naked eye from a distance of 50 cm, within 30 seconds in good lightning		


Remark:

1. Exception dark colors (e.g. wolfram grey, black) fulfill 4 E (> 0.5 to ≤ 1.0 N)



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