PRODUCT DATA SHEET

EGGER | FORM*line*® E1 MDF-MBP-L CE

for powder coating

Recipe 513

Application:

This is a board that has particularly good deep milling properties due to a fine fibre quality (MB). It is more densely compacted, significantly improved with regard to its resistance to cracking and its conductivity has been increased through the addition of a halogen-free conductivity additive (L). This type of board is particularly suited for coating processes with UV curing powder technology.

Board type meets the EN 622 type 5 standard

Mechanical properties Board mean values	Unit	Board thicknesses		
	[mm]	>12 - 19	>19 - 25	>25 - 40
Density	[kg/m³]	specific for the plant		
Internal Bond strength EN 319	[N/mm²]	≥1.0	≥0.85	≥0.75
Bending strength EN 310	[N/mm²]	≥28	≥24	≥19
Modulus of elasticity EN 310	[N/mm²]	≥2900	≥2500	≥2100
24 h thickness swelling	[%]	≤8	≤7	≤6
Surface soundness EN 311	[N/mm²]	≥1.2		
Screw withdrawal surface	[N]	≥1250	≥1250	≥1250
Screw withdrawal edge	[N]	≥1080	≥1000	≥940
Sand content	[%]	≤0.02		
Moisture content *1 EN 322	[%]	6±1.5		
Surface absorption	[mm]	≥180		
Formaldehyde content *2 EN 120	[mg/100g]	≤7.0		
Surface resistance Rs.	['Ω]	ca. 10^9		
Volume resistivity Rd.	['Ω]	ca. 10^9		

General tolerance	Unit	Board thicknesses		
	[mm]	>12 - 19	>19 - 25	>25 - 40
Length tolerance EN 324	[mm]	±2.0mm/m, maximum ±5.0		
Width tolerance EN 324	[mm]	±2.0mm/m, maximum ±5.0		
Squareness EN 324	[mm/m]	≤2.0		
Edge staightness EN 324	[mm/m]	≤1.5		
Thickness tolerance EN 324	[mm]	±0.2	±0.3	±0.3
Standard sanding		K220		
Bowing	[mm/m]	<1.5 mm		

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Building physical properties	Unit	Board thicknesses		
	[mm]	>12 - 19	>19 - 25	>25 - 40
Fire behaviour category				
Classification report Fire behaviour in line with EN 13 501-1(≥9 mm)		D-s2, d0		
Water vapour permeability EN 12524				
		μ moist		μ dry
Mean density 600 kg/m³		12		20
Mean density 900 kg/m³		20		30
Thermal conductivity EN 13986 chart 11				
Mean density 600 kg/m³ Mean density 900 kg/m³	W/(m·K)	0.1 0.14		
Air sound insulation EN 13986				
EN 13986		R =13 x lg(m_A) + 14 m_A = board surface weight kg/m²		
Sound absorption EN 13986 chart 10				
Frequency range 250 Hz bis 500 Hz 1000 Hz bis 2000 Hz		 0.10 0.20		
Biological durability EN 13986				
EN 335-3		Hazard category 1 (no earth contact; dry 20°C/65% relative humidity)		
PCP content EN 13986				
EN 13986	[ppm]	<5		

***1) On delivery**

***2) Perforator value in line with DIN EN 120 as sliding half-year mean value**
In accordance with the "Chemikalienverbotsverordnung [Order prohibiting certain chemicals] of October 1993 in association with the DiBt directive regarding the classification and monitoring of wood-based material boards with regard to formaldehyde emissions of June 1994, a perforator limit value (photometric) of 8 mg HCHO/100g atro board at a humidity of 6.5% may not be exceeded for uncoated fibreboards. The sliding half-year mean value is a maximum of 7.0mg HCHO/100g atro board.

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