

# RESOPAL® MFB

## TECHNICAL DATA SHEET

Melamine faced boards in accordance with EN 14322

### 1. Material description and summary

RESOPAL MFB is a melamine faced board (MFB) in accordance with EN 14322 for use in indoor areas. The boards are supporting boards in accordance with EN 312, and MDF chipboards in accordance with EN 622 - 5. High-quality cellulose strips impregnated with melamine resin are used for coating both sides. Pressure and heat are used to harden the resin and fix it to the supporting boards without adding any extra adhesives.

### 2. Specifications

Features	Supporting boards		Standard chipboard	Flame retardant chipboard	Moisture resistant Chipboard	Standard MDF board
	Thicknesses (mm)		8, 12, 16, 19, 25, 30	12, 16, 19	19	12, 16, 19
	Standard		EN 312 type P2	EN 312 type P2	EN 312 type P3	EN 622-5
	Standard	Unit				
<b>Physical characteristics</b>						
Density	EN 323	kg/m <sup>3</sup>	650 ±10%	700 ±10%	670 ±10%	760 ±10%
Moisture content (from factory)	EN 322	%	5 - 13	5 - 13	5 - 13	4 - 11
Thickness tolerance	EN 14323	mm	± 0.3	± 0.3	± 0.3	± 0.3
Length and width tolerance	EN 14323	mm	± 5	± 5	±5	±5
Tolerance and edge straightness	EN 324-1&2	mm/m	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5
Tolerance and perpendicularity	EN 324-1&2	mm/m	≤ 2	≤ 2	≤ 2	≤ 2
Evenness tolerance (≥16mm)	EN 14323	mm/m	≤ 2	≤ 2	≤ 2	≤ 2
<b>Mechanical properties</b>						
Shock resistance against a ball weighing 324g (falling height at a diameter of ≤ 10mm)	EN 14323	mm	≥ 500	≥ 500	≥ 500	≥ 500
Tensile strength of surface	EN 311	MPa	≥ 1	≥ 1	≥ 1	≥ 1
Flexural strength	EN 310	N/mm <sup>2</sup>	8, 12, 16, 19 mm 11 25 mm 10.5 30 mm 9.5	12, 16, 19 mm 11	14	12 mm 22 16, 19 mm 20
Elasticity module (e-module)	EN 310	N/mm <sup>2</sup>	8, 12 mm 1800 16, 19mm 1600 25 mm 1500 30 mm 1350	12 mm 1800 16, 19 mm 1600	1950	12 mm 2200 16, 19 mm 2500
Transverse tensile strength	EN 319	N/mm <sup>2</sup>	8, 12 mm 0.40 16, 19mm 0.35 25 mm 0.30 30 mm 0.25	8, 12 mm 0,40 16, 19 mm 0,35	0,45	12 mm 0.6 16, 19 mm 0.55
Swelling in thickness (24 h)	EN 317	%	-	-	≤ 14	-
Transverse tensile strength after cycle test	EN 321	N/mm <sup>2</sup>	-	-	0,13	-
Swelling in thickness after cycle test	EN 321	%	-	-	≤ 13	-

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	Standard		EN 312 type P2	EN 312 type P2	EN 312 type P3	EN 622-5
	Standard	Unit				
<b>Surface quality</b>						
Oberflächenfehler punktuell linear	EN 14323	mm <sup>2</sup> /m <sup>2</sup> mm/m <sup>2</sup>	≤ 2 ≤ 20	≤ 2 ≤ 20	≤ 2 ≤ 20	≤ 2 ≤ 20
Kantenausbrüche	EN 14323	mm	≤ 10	≤ 10	≤ 10	≤ 10
Rissanfälligkeit	EN 14323	Level (a)	3	3	3	3
Wear resistance (initial point)	EN 14323	Number of revolutions				
Plain patterns Printed patterns			≥ 150 < 50	≥ 150 < 50	≥ 150 < 50	≥ 150 < 50
Scratch resistance	EN 14323	N	≥ 1.5	≥ 1.5	≥ 1.5	≥ 1.5
Resistance against marks	EN 14323	Level (a)	3	3	3	3
Light fastness	EN 14323	Greyness bar	4 - 5	4 - 5	4 - 5	4 - 5
<b>Fire behaviour</b>						
Flammability	EN 13501-1	Euro class	> 9 mm: D-s2, d0	B-s2, d0	D-s2, d0	D-s2, d0
Heat value		kcal	4000	4000	4000	4000
Food safety	EN 13130-1		suitable	suitable	suitable	suitable
Release of formaldehyde	EN 717-2	Class	E1	E1	E1	E1

(a) **Level:** 1 = Damage to surface, 2 = Major changes to appearance, 3 = Moderate changes, 4 = Slight changes, only visible at certain angles, 5 = No changes

**Type P2:** Boards used for interior design in dry environments, **type P3:** Boards used for interior design in damp environments

### 3. Dimensions and surfaces

Features	Supporting boards		Standard chipboard	Flame retardant chipboard	Moisture resistant Chipboard	Standard MDF board
	Thicknesses (mm)		8, 12, 16, 19, 25, 30	12, 16, 19	19	12, 16, 19
	Standard		EN 312 type P2	EN 312 type P2	EN 312 type P3	EN 622-5
Dimensions (length x width)	Unit	mm	2800 x 2070	2800 x 2070	2800 x 2070	2800 x 2070
Texture			60, EM, EW, SX, HW (only 19 mm, only patterns 147, 148, 901, 9417)	60, EM, EW, SX	60, EM, EW, SX	60, EM, EW, SX, HW (only 19 mm, only decors 147, 148, 901, 9417)

All information in this product information sheet is based on the current state of technical knowledge, but cannot be guaranteed. No guarantee of suitability for certain intended purposes or uses is assumed.