

MULTICOLOR MIRABELL

FREEZE

MCM FR / GD2

Code no. 42191

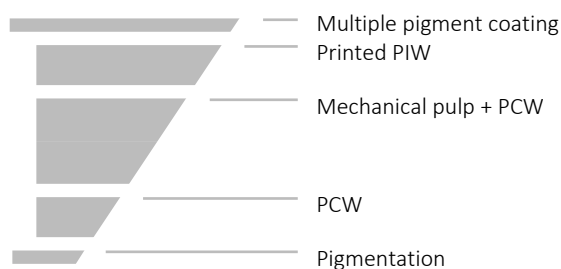


Mill

Mayr-Melnhof Gernsbach GmbH, Germany

Last update of values 28.12.2021

1 Board structure



	% of total	+/- in % of total
Virgin fibre	10	5
PIW	20	10
PCW	60	10
Pigment coating	10	5
Total	100	

2 Technical specifications

Grammage	Caliper	Stiffness				
		L&W 5° md	L&W 5° cd	L&W 5°	Taber 15° md	Taber 15° cd
g/m ²	µm	mNm	mNm	$\sqrt{(md \times cd)}$	mNm	mNm
250	330	15.4	7.0	10.4	7.5	3.4
280	370	20.9	9.5	14.1	10.7	4.9
300	395	24.7	11.2	16.6	12.6	5.8
320	425	31.8	13.3	20.6	16.2	6.4
350	475	42.0	17.0	26.7	20.6	7.8
380	520	53.0	21.2	33.5	25.2	10.1
400	545	60.9	24.4	38.5	28.0	11.3
420	575	68.7	27.5	43.5	32.4	12.9
450	610	77.9	31.2	49.3	37.5	15.0
500	675	96.0	44.0	65.0	47.9	21.0

Property	Value	Tolerances	Test standard
Brightness top (% Elrepho)	82	- 1	ISO 2470-2
Cobb 60 sec. top (g/m ²)	< 60		DIN EN ISO 535
Cobb 180 sec. reverse (g/m ²)	< 60		DIN EN ISO 535
Grammage (g/m ²)		+/- 2%	EN ISO 536
Caliper (µm)		+/- 5%, > 350 g/m ² +/- 3%	EN 20534
Stiffness (mNm)		- 15% ¹	DIN 53121
Testing climate	23°C 50%	+/- 1°C +/- 2% rh	EN ISO 186
Recyclability	confirmed	in terms of the norm	EN 13430
Biodegradability	confirmed	in terms of the norm	EN 13432

¹Permissible: -15% of the target stiffness. This applies to 100% of all measured single values. The single value is a calculated average of five measurements per sheet. The stiffness has to be measured at both sides. The resulting average value is then the stiffness of the single sample. L&W 5° figures are binding, Taber figures are indicative.
All figures mentioned above may be subject to technical changes.

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Multicolor Mirabell Freeze has a sustainable, environmentally friendly moisture barrier (freeze barrier) which guarantees the highest packaging stability even at low temperatures and when temperatures fluctuate. Multicolor Mirabell Freeze is based on the proven product Multicolor Mirabell, the top-selling recycled cartonboard in Europe.

Brightness

Top

82 %

1 Features

- protection from moisture to preserve packaging stability
- high brightness
- very good smoothness and opacity
- high stiffness
- MultiMill concept: high supply reliability and short lead times due to production in two mills

2 Applications*

- Chilled Food (secondary packaging)
- Frozen Food
- Fruit and Vegetable
- Beverages (secondary packaging)
- Pharma and Health Care

3 Mill Certificates

Downloadable certifications

Forest management

FSC® [TUVDC-COC-100867-C](#)

FSC® [TUVDC-CW-100867-C](#)

PEFC™ [DC-COC-000867](#)

Hygiene management [EN 15593 \(HACCP\)](#)

Quality management [ISO 9001](#)

Energy management [ISO 50001](#)

4 Mill Information

The mill Gernsbach (Germany) offers the following features:

- one of the most efficient recycled cartonboard mills in Europe
- experienced, innovative production team and professional technical support
- strategically located to the Western and Eastern European markets
- short transportation routes and flexible service guaranteed

5 Storage Recommendation

Storage conditions	temperature	relative humidity
Standard dust free	max 40°C	25-80%
Favorable dust free, climatized	20-25°C	40-55%

Please store in undamaged original wrapping film

6 Acclimatisation

Temperature difference Pallet to printing room 20°C	Time in printing room before unpacking in hours
5°C	10 11 12
10°C	20 22 24
15°C	30 34 35
20°C	40 46 50
Volume of pallet in m ³	0.7 1.0 1.4

Remove the packaging film just before printing.

Optimum processing climate: 22-23°C, 50-52% rel. humidity

*It is a general recommendation for enduse applications; legally binding is only the declaration of compliance issued by MM Board & Paper for each individual type of cartonboard.

If you are interested in Multicolor Mirabell Freeze or have any further questions, please contact

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www.mm-boardpaper.com

[General Terms of Trade](#)