



Mayr-Melnhof Karton Kolicevo



MCS and MM-Liner meet Kolicevo

MMK Kolicvevo

- Kolicvevo, Slovenia in the South of the European Union - part of the Euro Zone - is strategically located between the Eastern and Western European markets
- The mill has more than 90 years of experience in carton board production
- High standards and state-of the art technology and processes are the key for quality consistency and application safety
- Enable production for sensible applications such as Pharma, Personal Care & Hygiene, Chocolate & Confectionary, Biscuits & Bakery & Cakes, Chilled & Frozen Food

MMK Kolicveo

We produce at two board machines

- BM 2 – the shiny GC 2 Kromopak
- BM3 – range of high-quality recycled cartonboards and liner
- Available with FSC or PEFC certification

We can supply our products in the following formats:

	KM 2	KM 3
Formats		
Maximum (in mm)	1.400 x 1.600	1.400 x 1.600
Reels		
Min. width (in mm)	2.200	2.400
Max. width (in kg)	3.500	3.500
Outer diameter		
Minimum (in mm)	800	800
Maximum (in mm)	1.650	2.050
Core diameter		
Diameter (in mm)	76 / 100 / 150 / 300 for both KM	

Qualität	Bezeichnung	Qualitätsnr.	Bereich g/m ²
Quality	Name	Quality Nr.	Range gsm

Kolicveo, SI

2 Kartonmaschinen (Arbeitsbreite: KM2 - 220 cm, KM3 - 440 cm)
2 Boardmachines (Decklewidth: BM2 - 220 cm, BM3 - 440 cm)

GC2	KRO	Kromopak	12.130	215 - 450
GT2	BEL	Belpak	32.173	230 - 450
GT4	GRK	Grafopak Kraft	34.101	250 - 500
GD2	GRA	Grafopak	42.134	250 - 450
GD3	MCS	Multicolor Spezial	43.131	230 - 450
LIN	MML	MM-Liner	44.103	210 - 230

MCS and MM-Liner meet MMK Kolicvevo

Further investments enable MMK to integrate Kolicvevo mill into a unique service and save delivery system

MMKs Multi-Mill Program

- MCS* – GD 3 is produced at 4 MMK mills; grammage range in Kolicvevo from 230 gsm up to 450 gsm
- MM-Liner** is produced at 3 MMK mills; grammage range in Kolicvevo from 210 gsm to 230 gsm

* instead of Koliprint **instead of KK-Liner

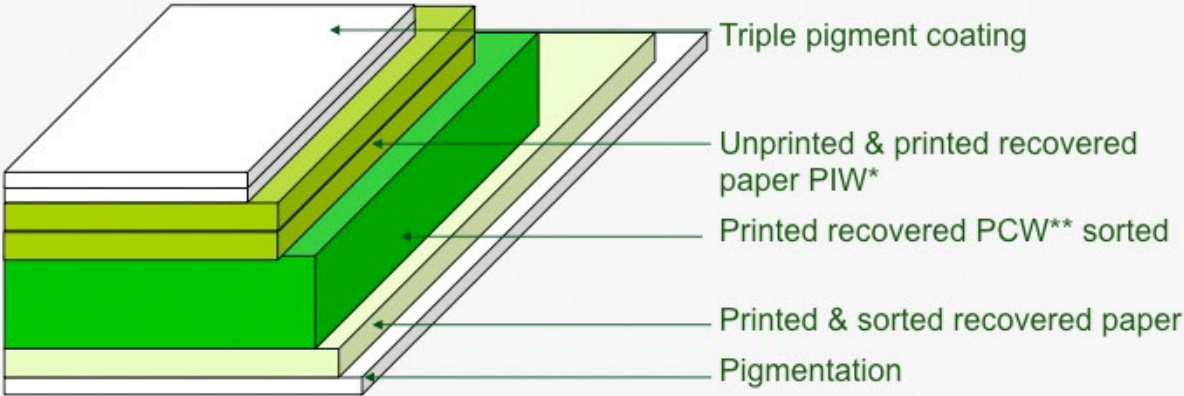
MCS – advantages

- Improved whiteness of 78% Elrepho
- Better opacity
- Consistent stiffness and gloss
- High runability and printability = top converter performance
- Great availability – Multi Mill program
- Top technical customer service

Good value for money!

Board Structure - MCS

GD 3 – pure recycled fibre cartonboard



*Post Industrial Waste **Post Consumer Waste

Technical Specifications

Multicolor Spezial - MCS / GD3

Werk/mill/usine: Kollevo Karton d.o.o., SLOVENIA

43131

Gewicht Grammage Grammage	Dicke Caliper Epaisseur	Volumen Bulk Main	Stoifigkeit / Stiffness / Rigidity				
			L + W 5°		L + W $\sqrt{(md \times cd)}$	Taber 15°	
			längs/md/sm	quer/cd/st		längs/md/sm	quer/cd/st
g/m ²	µm	cm ³ /g	mNm	mNm		mNm	mNm
230	280	1.22	8.0	3.6	5.4	3.6	1.7
240	290	1.21	9.4	4.3	6.3	4.7	2.2
250	300	1.20	10.7	4.9	7.2	5.8	2.6
270	330	1.22	14.6	6.7	9.9	7.3	3.3
280	345	1.23	16.6	7.6	11.2	8.1	3.7
300	370	1.23	20.5	9.3	13.8	10.7	4.9
320	400	1.25	27.2	10.9	17.2	13.6	5.5
340	433	1.27	31.1	12.4	19.7	16.4	6.6
350	450	1.29	33.0	13.2	20.9	17.8	7.2
380	500	1.32	42.7	17.1	27.0	21.7	8.6
400	530	1.33	49.7	19.9	31.4	25.0	10.0
420	560	1.33	55.1	22.1	34.9	27.6	11.1
450	600	1.33	67.6	27.1	42.8	34.4	13.7

WeiBgrad / Brightness / Degré de blancheur:	78 -1% Elrepho (VS / top / recto)
MeBmethode / Testing Method / Méthode d'essai	Toleranzen / Tolerances / Tolérances
Probenahme / Sampling / Echantillonnage:	Prüfklima / Testing climate / Atmosphère conditionnée: 23 +/- 1 °C 50 +/- 2 % rF/hr
Gewicht / Grammage / Grammage	EN ISO 536 -2% / +2%
Stoifigkeit / Stiffness / Rigidity	DIN 53121 -15%
Dicke / Caliper / Epaisseur	EN 20534 +/- 5 %
Volumen / Bulk / Main	+/- 5 %

05/2010

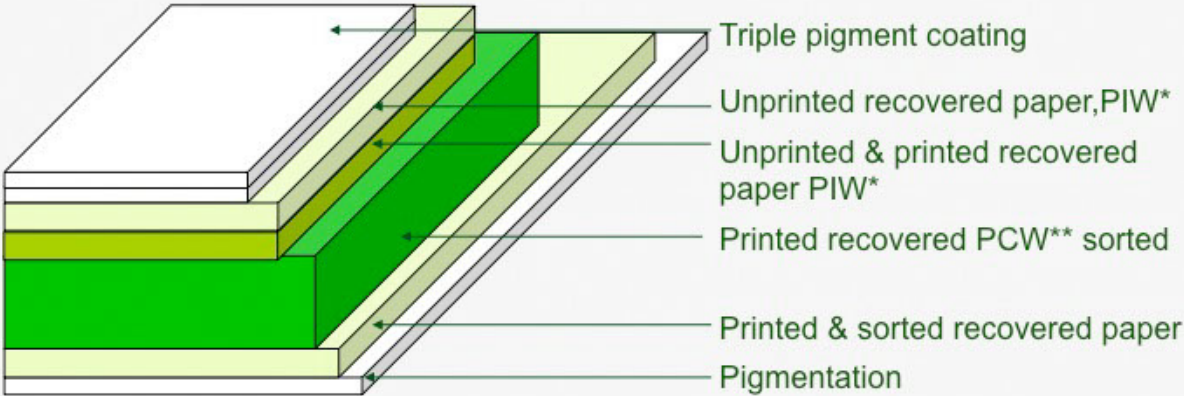
MML – advantages

- Good whiteness of 80% Elrepho
- Good surface parameters compared to other eco-liner
- High runability and printability = top converter performance
- Great availability – Multi Mill program
- Top technical customer service

Good value for money!

Board Structure – MM Liner

GD Liner – pure recycled fibre cartonboard



*Post Industrial Waste **Post Consumer Waste

Technical Specifications

MM-Liner - MML / LINER

Werk/mill/usine: Kollcevo Karton d.o.o., SLOVENIA

44103

Gewicht Grammage Grammage	Dicke Caliper Epaisseur	Volumen Bulk Main	Steifigkeit / Stiffness / Rigidité				
			L + W 5°		L + W $\sqrt{(md \times cd)}$	Taber 15°	
			längs/md/sm	quer/cd/st		längs/md/sm	quer/cd/st
g/m ²	µm	cm ³ /g	mNm	mNm		mNm	mNm
210	245	1.17	6.2	2.8	4.2	3.5	1.6
230	270	1.17	8.3	3.6	5.5	4.7	2.1

Weißgrad / Brightness / Degré de blancheur:	80 -1% Elrepho (VS / top / recto)
Meßmethode / Testing Method / Méthode d'essai	Toleranzen / Tolerances / Tolérances
Probenahme / Sampling / Echantillonnage:	EN ISO 186 Prüfklima / Testing climate / Atmosphère conditionnée. 23 +/- 1 °C 50 +/- 2 % rF/hr
Gewicht / Grammage / Grammage	EN ISO 536 -2% / +2%
Steifigkeit / Stiffness / Rigidité	DIN 53121 -15%
Dicke / Caliper / Epaisseur	EN 20534 +/- 5 %
Volumen / Bulk / Main:	+/- 5 %

05/2010

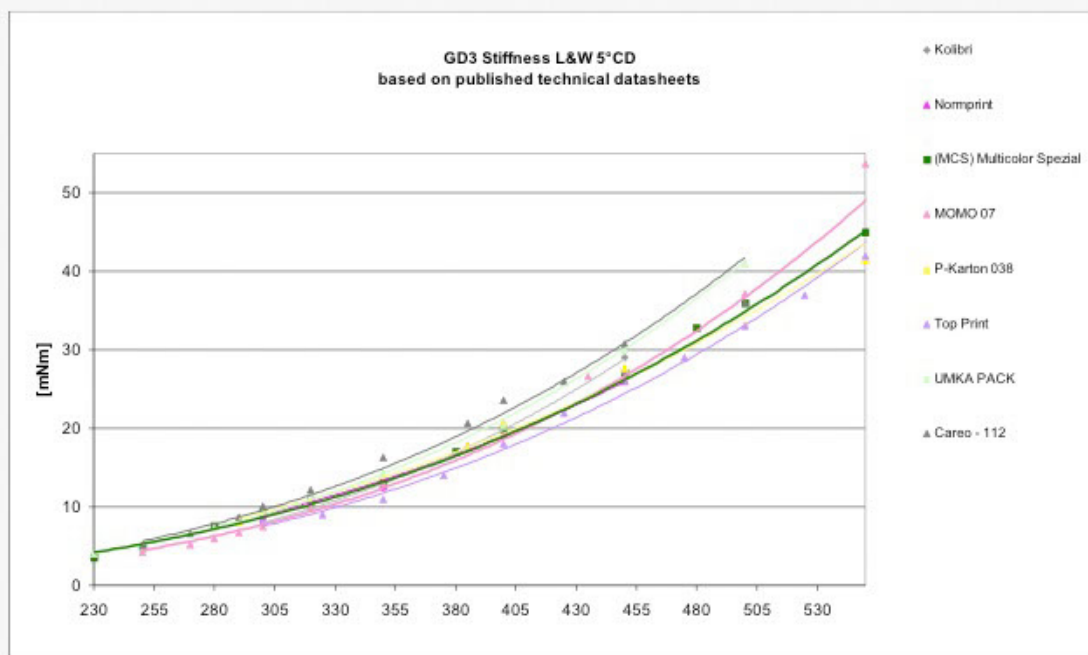
Nur als Liner und nicht als Faltschachtel anwendbar.

For liner and not for folding carton applications.

Utilisable uniquement comme Liner et non pour boîtes pliantes.

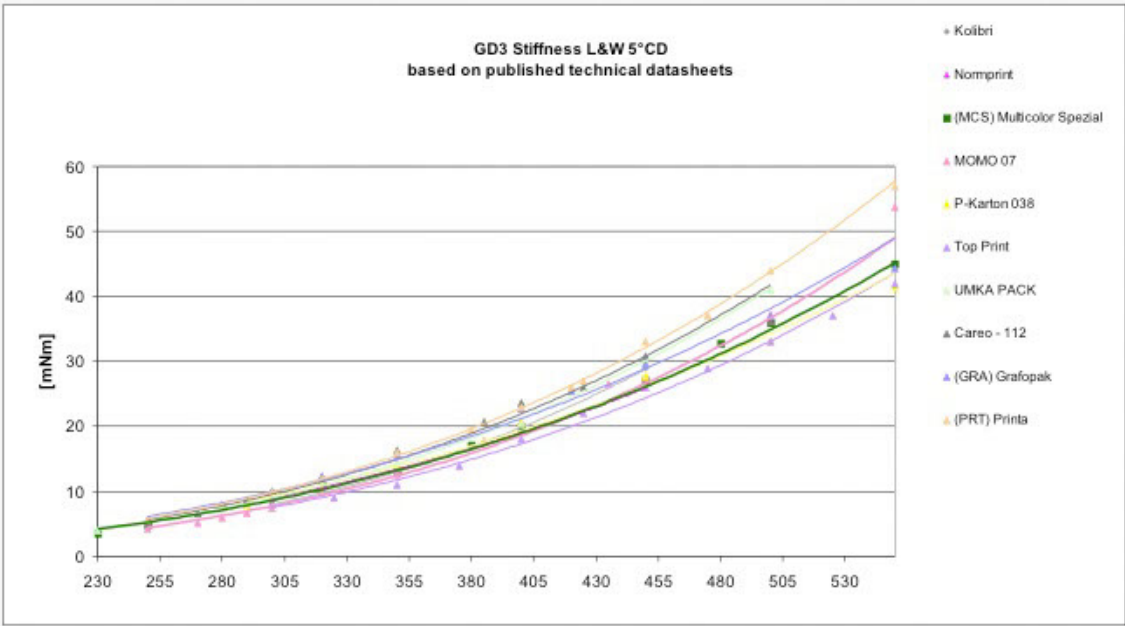
Biegesteifigkeitswerte sind Richtwerte | Stiffness figures are indicative

GD3 board comparison – L&W 5° CD stiffness - MCS in the top segment





GD board comparison – L&W 5° CD stiffness - comparison includes Printa and Grafopak



Kolicevo mill and certificates

Kolicevo mill is certified according to:

- ISO 9001
- HACCP
- REACH
- FSC (Forest Stewardship Council)
- PEFC (Program for the Endorsement of Forest Certification Schemes)

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certificates can be downloaded
from our website www.mm-karton.com

