

FORMAKOTE™ SPECTRA

SPECIFICATION SHEET JUNE 2025

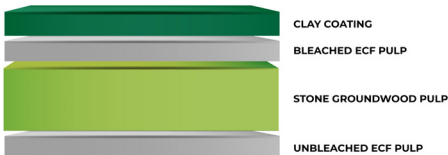
COATED ONE SIDE, KRAFT-BACKED FOLDING BOXBOARD

Formakote™ Spectra is a strong, cost-effective, and fully recyclable folding boxboard suitable for a wide range of applications across the FMCG, industrial and food service markets. It is a great choice for brand owners and marketers looking for a cost-effective boxboard that provides excellent product protection while delivering high-quality printability.

Application Ideas:

- FMCG - SRS (shelf ready shippers), multipacks, freezer and chiller sleeves and cartons
- Industrial - tools, parts, stationery
- Fresh Produce - fruit punnets, cartons and clamshells

Our products are tested for food safety against conditions of use that should not be assumed to include the above-listed applications. To ensure we are providing the correct product with the correct product safety, we must know the intended final use. Please contact us with this information before using our product for any application.



Structure:

- 3-ply board structure for yield and stiffness
- Double blade coated top side
- Uncoated kraft reverse side

Printability:

- Suitable for sheet fed, offset, digital and flexo printing
- Complex graphics

Ordering:

- Minimum order size may apply
- Deckle surcharge may apply
- Available as hard sized
- Call your customer service representative for assistance

Product Safety:

- GMP as per EC 2023/2006
- Uses only virgin pulp fibres
- Free of optical brightening agents
- Materials used are approved for food contact according to:
 - EC 1935/2004
 - US FDA CFR Title Part 176.170 and 176.180
 - German BfR Recommendation XXXVI
 - China GB 4806.1 and 4806.8

Specific compliance details are available in our product safety statements and must be carefully read.



For further specification and samples email sales@wmlpaperboard.com or phone WML sales on +64 7 306 3840

FORMAKOTE™ SPECTRA SPECIFICATION

THICKNESS	GRAMMAGE	BENDING RESISTANCE L & W (15°)		BENDING MOMENT TABER (15°)		MOISTURE
METRIC						
µm	g/m²	MD mN	CD mN	MD mNm	CD mNm	%
280	183	119	52	5.7	2.5	6.5-10.5
305	203	160	65	7.5	3.2	6.5-10.5
350	233	248	104	12.0	5.0	6.5-10.5
400	255	347	144	16.8	7.0	6.5-10.5
450	274	446	186	21.5	9.0	6.5-10.5
500	301	604	252	29.2	12.2	6.5-10.5
550	324	762	317	36.8	15.3	6.5-10.5
600	350	970	405	46.9	19.6	6.5-10.5
630	365	1097	457	53.0	22.1	6.5-10.5
675	390	1230	513	59.4	24.8	6.5-10.5
700	403	1286	536	62.1	25.9	6.5-10.5
IMPERIAL						
PT	lbs/MSF	MD gf	CD gf	MD gf-cm	CD gf-cm	%
11.0	37	12	5	58	25	6.5-10.5
12.0	42	16	7	76	33	6.5-10.5
13.8	48	25	11	122	51	6.5-10.5
15.7	52	35	15	171	71	6.5-10.5
17.7	56	45	19	219	92	6.5-10.5
19.7	62	61	26	298	124	6.5-10.5
21.7	66	78	32	375	156	6.5-10.5
23.6	72	99	41	478	200	6.5-10.5
24.8	75	112	47	540	225	6.5-10.5
26.6	80	125	52	606	253	6.5-10.5
27.6	83	131	55	633	264	6.5-10.5

PRINTING SURFACE PROPERTIES	
IGT Blister Velocity (medium viscosity oil)	1.2 m/s
IGT Pick Velocity (medium viscosity oil)	1.2 m/s
ISO Brightness	80 %
PPS Roughness (10 kgf)	1.8 µm

OTHER PROPERTIES	
Scott Plybond	175 J/m ² 83.3 ft.lb/1000 in ²
Cobb (60 s) - Back Liner	35 g/m ²
Cobb (180 s) - Back and Top Liner (Hard Sized)	50 g/m ²

TOLERANCES	
Thickness	±25 µm ±0.001 inch
Grammage	±5 %
Bending Resistance	-20 %
Bending Moment	Typical conditioned values
ISO Brightness	±2 brightness units
PPS Roughness (10 kgf)	Max 2.5 µm
Scott Plybond	-20 %
Cobb (60 s)	+40 g/m ²
Cobb (180 s) (Hard-sized)	+40 g/m ²
IGT Pick/Blister	≥0.6 m/s

Whakatane Mill Ltd certified systems:

- Food Safety System Certification (FSSC) 22000
- ISO 9001 Quality Management System
- ISO 14001 Environmental Management System
- FSC Chain-of-Custody;
FSC Licence Code FSC® C010438

Notes:

These property mean values and limits are the manufacturing standards applied by Whakatane Mill and relate to machine roll tests carried out according to Appita (NZS/AS 1301).

All paperboard exhibits loss in stiffness and plybond caused by routine physical actions in converting (i.e. decurling, wrapping cylinders or passing through nips during printing etc.).

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The above information is given for general guidance only and is subject to change without notice.