

FORMAKOTE™ SPECTRA

SPECIFICATION SHEET NOVEMBER 2025

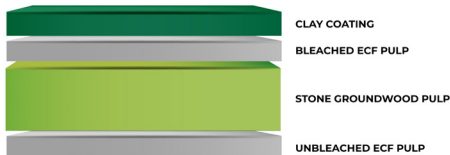
COATED ONE SIDE, KRAFT-BACKED FOLDING BOXBOARD

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	124	62	6.0	3.0	6.5-10.5
305	203	159	80	7.7	3.8	6.5-10.5
350	233	236	118	11.4	5.7	6.5-10.5
400	255	324	162	15.6	7.8	6.5-10.5
450	274	409	205	19.8	9.9	6.5-10.5
500	301	552	276	26.6	13.3	6.5-10.5
550	324	679	339	32.8	16.4	6.5-10.5
600	350	843	421	40.7	20.4	6.5-10.5
630	365	969	484	46.8	23.4	6.5-10.5
675	390	1105	552	53.3	26.7	6.5-10.5
700	403	1174	587	56.7	28.3	6.5-10.5
IMPERIAL						
PT	lbs/MSF	MD gf	CD gf	MD gf-cm	CD gf-cm	%
11.0	37	13	6	61	31	6.5-10.5
12.0	42	16	8	78	39	6.5-10.5
13.8	48	24	12	116	58	6.5-10.5
15.7	52	33	17	159	80	6.5-10.5
17.7	56	42	21	202	101	6.5-10.5
19.7	62	57	28	271	136	6.5-10.5
21.7	66	70	35	334	167	6.5-10.5
23.6	72	87	43	415	208	6.5-10.5
24.8	75	100	50	477	239	6.5-10.5
26.6	80	114	57	543	272	6.5-10.5
27.6	83	121	60	578	288	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 typical 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.