

FORMAKOTE™ SPECTRA NATURAL

SPECIFICATION SHEET JUNE 2025

UNCOATED FOLDING BOXBOARD

High in strength, Formakote™ Spectra Natural is made using 100 % virgin fibre with high bulk properties, making the grade suitable for a number of different folding carton applications. Formakote™ Spectra Natural is the ideal solution for those looking for a carton board that possesses a natural finish and appearance.

Application Ideas:

- FMCG - SRS (shelf ready shippers), multipacks, freezer and chiller sleeves and cartons
- Food Service - takeaway clamshells, trays, pizza 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
- Uncoated top side
- Uncoated reverse side

Ordering:

- Minimum order size may apply
- Deckle surcharge may apply
- 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 NATURAL 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	%
350	226	248	104	12.0	5.0	6.5-10.5
400	247	347	144	16.8	7.0	6.5-10.5
450	267	446	186	21.5	9.0	6.5-10.5
500	293	604	252	29.2	12.2	6.5-10.5
550	317	762	317	36.8	15.3	6.5-10.5
630	364	1097	457	53.0	22.1	6.5-10.5
660	374	1200	500	58.0	24.2	6.5-10.5
IMPERIAL						
PT	lbs/MSF	MD gf	CD gf	MD gf-cm	CD gf-cm	%
13.8	46	25	11	122	51	6.5-10.5
15.7	51	35	15	171	71	6.5-10.5
17.7	55	45	19	219	92	6.5-10.5
19.7	60	62	26	298	124	6.5-10.5
21.7	65	78	32	375	156	6.5-10.5
24.8	75	112	47	540	225	6.5-10.5
26.0	77	122	51	591	247	6.5-10.5

PRINTING SURFACE PROPERTIES	
ISO Brightness (typical value)	28 %
Bendtsen Roughness	550 ml/min

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

TOLERANCES	
Thickness	±25 µm ±0.001 inch
Grammage	±5 %
Bending Resistance	-20 %
Bending Moment	Typical conditioned values
Bendsten Roughness	+250 ml/min
Scott Plybond	-20 %
Cobb (60 s)	+40 g/m ²

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.).



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

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