

FORMAKOTE™ NATURA

SPECIFICATION SHEET NOVEMBER 2024

COATED ONE SIDE MANILLA-BACKED FOLDING BOXBOARD

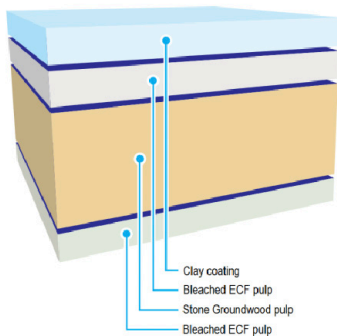
Formakote™ Natura is a strong, cost effective, and fully recyclable boxboard suitable for a range of applications in the FMCG, industrial, food service, and bakery markets. It is a great choice for brand owners and marketers looking for a cost-effective white one-side coated board that will promote and enhance brand values and identity.

Application Ideas:

- FMCG - cereal, tea, muesli bars, biscuits, confectionery, baking goods, pet food tissues
- Chilled and frozen foods - ready meals, fish, chicken, ice cream, pizza
- Fast food - fries, burger clams, trays
- Personal care

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 coated top side
- Uncoated reverse side (Manilla)

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.



**EXCELLENCE
IN BOARD,
EVERY DAY**

For further specification and samples email customerservice@wml.biz or phone WML sales on +64 7 306 3840

FORMAKOTE™ NATURA SPECIFICATION

THICKNESS	GRAMMAGE	BENDING RESISTANCE L & W (15°)		BENDING MOMENT TABER (15°)		MOISTURE
METRIC						
µm	g/m ²	MD mN	CD mN	MD mNm	CD mNm	%
330	210	192	89	9.3	4.3	6.5-10.5
350	219	224	106	10.8	5.1	6.5-10.5
400	238	298	145	14.4	7.0	6.5-10.5
450	261	383	189	18.5	9.1	6.5-10.5
500	284	478	234	23.1	11.3	6.5-10.5
550	307	572	276	27.6	13.3	6.5-10.5
600	331	689	329	33.3	15.9	6.5-10.5
650	349	825	391	39.8	18.9	6.5-10.5
IMPERIAL						
PT	lbs/MSF	MD gf	CD gf	MD gf-cm	CD gf-cm	%
13.0	43	20	9	95	44	6.5-10.5
13.8	45	23	11	110	52	6.5-10.5
15.7	49	30	15	147	71	6.5-10.5
17.7	53	39	19	189	93	6.5-10.5
19.7	58	49	24	236	115	6.5-10.5
21.7	63	58	28	281	136	6.5-10.5
23.6	68	70	34	340	162	6.5-10.5
25.6	71	84	40	406	193	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	79 %
PPS Roughness (10 kgf)	1.4 µm

OTHER PROPERTIES	
Scott Plybond	175 J/m ² 83.3 ft.lb/1000 in ²
Cobb (60 s) - Back Liner	35 gm ²
Cobb (180 s) - Back and Top Liner	50 gm 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 2.1 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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