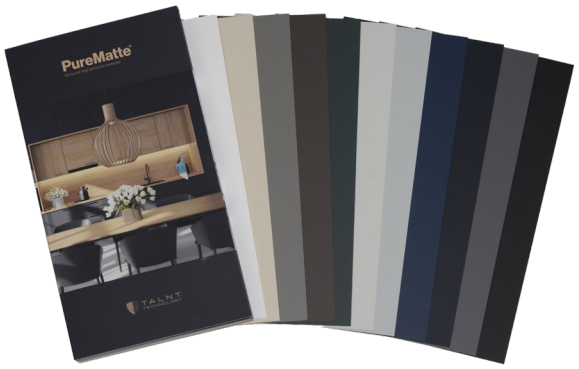
PureMatte®

High Pressure Laminate Technical Data Sheet

Summary

PureMatte is a non-postformable laminate featuring a super matte, soft touch, highly durable surface. Advanced TALNT® technology creates a next-generation, fingerprint resistant functional surface that is further enhanced with TALNT®+ antimicrobial performance.



Applications

- Benchtops
- Vanity Units
- Furniture
- Partitions
- Wall Panels
- Store Fixtures

Functional Benefits

Product Characteristics

Attribute	Description
Product Category	High Pressure Laminate
Substrate Type	-
Sheet Size (nominal)	2440mm x 1220mm, 3660 x 1220mm
Thickness (nominal)	0.8mm
Weight (Kg/m2 approx)	1.0
Finish	PureMatte
Colour/Pattern	To view full range, please visit puremattte.co.nz

Dimensional Tolerance (Tested to ISO 4586-2)

Attribute	Minimum Values
Thickness	± 0.10mm
Edge Defects	Defect free length and width within the nominal sheet size minus 20mm
Length and Width	+20mm / -20mm
Straightness of edges	1.5mm/m maximum deviation
Squareness	< 6mm (variation in diagonal measurement)
Flatness	60mm/m maximum deviation

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Surface Quality (Tested to ISO 4586-2)

Attribute	Description
Inspection Guidelines	Viewing distance 0.75 to 1.5m from laminate surface Light intensity approximately 800 to 1000 lx at the laminate surface Using normal vision, corrected if necessary. No magnification devices
Dirt, Spots & Similar Surface Defects	The admissible size of defects in based on a maximum contamination area equivalent to 1.0mm2/m2 and is proportional to the sheet size under inspection The total admissible area of contamination may be concentrated in one spot or dispersed over an unlimited amount of smaller defects
Fibres, Hairs & Scratches	The admissible size of defects is based on a maximum contamination length equivalent to 10mm/m2 and is proportional to the sheet size under inspection The total admissible length of contamination may be concentrated in one defect or dispersed over an unlimited amount of smaller defects
Indentations	The admissible size of defects in based on a maximum contamination area equivalent to 2.0mm2/m2 and is proportional to the sheet size under inspection The total admissible area of contamination may be concentrated in one spot or dispersed over an unlimited amount of smaller defects

Specialty Performance

Attribute	Tested to	Typical Values	
Fire Hazard Properties	Cone calorimeter AS/NZS 3837 *(In accordance to AS5637.1)*	Group Number	2
		Average Specific Extinction Area (ASEA)	11.7 m^2/Kg
Fingerprint Resistant	PureMatte Internal Method	Appearance rating not worse than 4 Slight change of gloss and/or colour, only visible at certain viewing angles *Note: Matching backer material DOES NOT contain Fingerprint Resistance functionality.*	
TALNT®+ Antimicrobial Surface	TALNT®+ antimicrobial surface technology, prevents growth of bacteria and inhibits fungus on decorative surfaces. TALNT®+ provides enhanced antimicrobial protection for the expected life of the laminate.		
Antibacterial Activity and Efficacy (24 hours)	JIS Z 2801-2012 referred to in ISO 22196-2011	PASS= R value > 2.0 orders of magnitude difference between a treated sample and an untreated control or other inert surface	
	Bacterial Strains tested: Staphylococcus aureus (ATCC 6538P, DSMZ346) Escherichia coli (ATCC 8739, DSMZ 1576) Pseudomonas aeruginosa (ATCC 15442, DSMZ1253) Salmonella chloeraesius (subsp. enterica Serovar Typhimurium (Syn. Salmonella choleraesuis) DSMZ 5569)		
Antifungal (Incubation condition: 300C for 28 days at 90% relative humidity)	ASTM G21	Rating ≤ 1 1 = Traces of growth (less than 10%) 0 = None	
	Fungal Strains tested: Aspergillius niger (ATCC 9642) Penicillium pinophilum (ATCC 11797) Chaetomium globosum (ATCC 6205) Gliocladium virens (ATCC 9645) Aureobasidium pullulans (ATCC 15233)		

Emissions & Environmental Performance

Attribute	Tested to	Unit	Minimum Values
Formaldehyde	ISO 12460-3	mg/m^2h	≤ 1.0
Volatile Organic Compounds (VOC)	ASTM D5116	mg/m^2/h	≤ 0.5

Surface Performance

Attribute	Test Procedure *Tested to EN 438-2:2005 unless otherwise stated*	Property or feature	Unit	HGS 333
Resistance to Surface Wear	10	**Abrasion Resistance**	**Revolutions (min)**	
			Initial Abrasion Point	150
			Abrasion Value	350
		Appearance	**Degree (min)**	
			MT Surfaces	4
			Other Surfaces	4
Resistance to immersion in boiling water	12	**Mass Increase**	**% (max)**	
			2mm<5mm	5
			>5mm	3
		Thickness Increase	**% (max)**	
			2mm<5mm	6
			>5mm	4
Resistance to water vapour	14	**Appearance**	**Degree (min)**	
			MT Surfaces	3
			Other Surfaces	4
Resistance to Dry Heat at 180°C	16	**Appearance**	**Degree (min)**	
			MT Surfaces	3
			Other Surfaces	4
Dimensional stability at elevated temperature	17	**Cumulative Measure Change**	**% (max)**	
			<2mm	0.55
			2mm<5mm	1.05
Resistance to Scratching	25	**Appearance**	**Degree (min)**	
			MT Surfaces	3
			Other Surfaces	4
Resistance to Staining	26		**Degree (min)**	
			Group 1-2	5
			Group 3	4
Lightfastness	27	**Contrast**	**Grey Scale (min)**	4-5
Resistance to Cigarette burns	30	**Appearance**	**Degree (min)**	3
Density	EN ISO 1183-1	**Density**	**g/cm² (min)**	1.35

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