

Technical Data Sheet (TDS)

KINGDOM COMPACT LAMINATES

PROPERTIES	TEST METHOD	UNIT OF MEASUREMENT	ATTRIBUTES OF PERFORMANCE	RESULT (AS PER EN 438-4)
Resistance to surface wear	EN 438-2.10	Revolutions	Wear resistance-initial point	Unicolours - ≥ 200 Printed Décor - ≥ 160
		Revolutions	Wear resistance-Wear Value	Unicolours - ≥ 450 Printed Décor - ≥ 410
Resistance to immersion in boiling water	EN 438-2.12	%	Mass Increase - 2 ≤ T < 5 mm	≤ 2
		%	Mass Increase - T ≥ 5 mm	≤ 2
		%	Thickness Increase - 2 ≤ T < 5 mm	≤ 2
		%	Thickness Increase - T ≥ 5 mm	≤ 1.5
		Rating	Appearance - Gloss Finish	≥ 4
		Rating	Appearance - Other Finishes	≥ 5
Resistance to dry heat 180°C	EN 438-2.16	Rating	Appearance-Gloss Finish	≥ 4
		Rating	Appearance-Other Finishes	≥ 5
Resistance to Water Vapour	EN 438-2.14	Rating	Appearance-Gloss Finish	≥ 4
		Rating	Appearance-Other Finishes	≥ 5
Dimensional stability at elevated temperature	EN 438-2.17	Longitudinal %	Cumulative dimensional change 2 ≤ T < 5 mm	≤ 0.40
		Transversal %	Cumulative dimensional change 2 ≤ T < 5 mm	≤ 0.80
		Longitudinal %	Cumulative dimensional change T ≥ 5 mm	≤ 0.30
		Transversal %	Cumulative dimensional change T ≥ 5 mm	≤ 0.60
Dimensions				
Thickness	EN 438-2.5	mm	12.0 ≤ t : ± 0.60 mm	12.0 ≤ t : ± 0.28
Size	EN 438-2.6	mm	Length and Width +10/-0	+05 / -0
Straightness of Edges	EN 438-2.7	mm/m	Straightness of edges ≤ 1.5	≤ 1
Squareness	EN 438-2.8	mm/m	Squareness ≤ 1.5	≤ 1
Flatness	EN 438-2.9	mm/m	For 1.80 ≤ t < 6.00mm : 8	5
		mm/m	For 6.0 ≤ t < 10.00mm : 5	3
		mm/m	10.0 ≤ t : 3	2
Surface quality	EN 438-2.4	mm²/m²	Spots, dirt and similar surface defects	≤ 1
		mm²/m²	Fibres, hairs, and scratches	≤ 10
Resistance to impact by larg diameter ball	EN 438-2.21	min.	Indent dia. 10mm 2≤ 6mm - 1800mm	6
		min.	Indent dia. 10mm T≥ 6mm - 1800mm	4
Resistance to cracking	EN 438-2.24	Rating	Appearance	≥ 4
Resistance to scratching	EN 438-2.25	Rating	Appearance - Smooth Finishes	≥ 2.5
		Rating	Appearance - Textured Finishes	≥ 3.5
Resistance to staining	EN 438-2.26	Rating	Appearance - Group 1 & 2	≥ 5
		Rating	Appearance - Group 3	≥ 4
Resistance to cigarette burns	EN 438-2.30	Rating	Appearance	≥ 3
Light fatness (Xenon Arc)	EN 438-2.27	Grey Scale Rating	Contrast	4 to 5
Density	EN-ISO 1183-1-2004	gm/ cm³	Density 1.35-1.45	1.4 ± 0.05
Tensile Strength	EN-ISO 572-2-1996	Mpa	Stress ≥ 60	60-90
Flexural Strength	EN-ISO 178-2003	Mpa	Stress ≥ 80	80-100
Flexural Modulus	EN-ISO 178-2003	Mpa	Stress ≥ 9000	9000-11500
FIRE PERFORMANCES	Test as per EN 13823 and EN ISO 11925-2 (Small-burner test)			
Fire reaction classification-CGS	EN 135 01	Rating	Classification - T ≥ 6 mm	D - s2, do
Fire reaction classification-CGF		Rating	Classification - 3 ≤ T < 6 mm	B - s2, do
Other Properties	ISO 12460-3		Classification - 6 ≤ T < 13 mm	B - s2, do
Release of Formaldehyde	EN-717-2-2006	Rating	Classification	E1

*Required Values Based on EN-438 - 4

Factory :

Kingdom Decorative Surfaces (India)
C/o Hosur Paper Mills
Sy. No.211 & 212, Sanamavu Village,
Rayakotta Road, Hosur. Post Box- 635119
Tamil Nadu-India

UAE Distribution Centre:

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