Euro Laminates

Technical Data Sheet

High Pressure Laminate

High Pressure Laminate: Material consists layers of Kraft paper impregnated with Phenol and the top layer on either one or both sides consisting of a Decorative paper impregnated in Melamine. The entire sandwich is bonded together under high pressure by heat

Property	Test Method	Technical Characteristic	Unit of Measure	Results	Requirements (According to EN 438-3)
Thickness	EN 438-2.5	Thickness	mm	0.98 -1.00	1.0±0.10
Flatness	EN 438-2.9	Maximum Deviation	mm/m	20-25	Max 60
Length and Width	EN 438-2.6	Length and Width	mm	2-3	+10
Straightness of Edges	EN 438-2.7	Maximum Deviation	mm/m	0.5-0.7	Max 1.5
Squareness	EN 438-2.8	Maximum Deviation	mm/m	0.2-0.4	Max 1.5
Resistance to Surface Wear	EN 438-2.10	Wear Resistance	Wear Value	380	Min. 350
Resistance to Immersion in Boiling Water	EN 438-2.12	Appearance	Gloss Finish Other Finishes	≥ 3 ≥ 4	Min 3 Min 4
Resistance to Dry Heat (180° C)	EN 438-2.16	Appearance	Gloss Finish Other Finishes	≥ 3 ≥ 4	Min 3 Min 4
Resistance to Wet Heat (100° C)	EN 12721	Appearance	Gloss Finish Other Finishes	≥ 3 ≥ 4	Min 3 Min 4
Dimension Stability at Elevated Temperature	EN 438-2.17	Change	Max % L Max % T	0.25 0.50	Max. 0.55 Max. 1.05
Resistance to Impact by Small Diameter Ball	EN 438-2.20	Spring Force	N	25	Min. 20
Resistance to Cracking Under Stress	EN 438-2.23	Appearance	Min	5	Min. 4
Resistance to Scratching	EN 438-2.25	Appearance	Min	≥ 3	Min 3

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Resistance to Staining	EN 438-2.26	Appearance	Groups 1 & 2 Group 3	5 ≥ 4	Min. 5 Min 4
Light Fastness (Xenon Arc)	EN 438-2.27	Contrast	Grey Scale Rating	4	4 to 5
Resistance to Cigarette Burns	EN 438-2.30	Appearance	Rating	≥ 3	Min 3
Resistance to Water Vapour	EN 438-2.14	Appearance	Gloss Finish Other Finishes	≥ 4 5	Min 3 Min 4
Density	ISO 1183	Density	g/cm^3 (min)	1.4	1.35