

Technical Data Sheet

StyleLex HPL carcass panel is a premium, high-rigidity solution for cabinetry in wet, humid, and covered outdoor environments. The panel features weather-resistant composite core (WCC) with a textured high-pressure laminate (HPL) surface, bonded using advanced PUR reactive hot-melt technology. This construction delivers excellent water and moisture resistance, enhanced stiffness, superior surface durability, and improved thermal resistance, making it ideal for demanding environments.

StyleLex 16mm Carcass Laminate Panel	
Face Surface	White Texture HPL Sheet
Back Surface	White Texture HPL Sheet
Core Material	Weatherproof Composite Core (WCC)
Bonding System	Advanced PUR Reactive Hot-Melt Adhesive System

Property	Specification	Test Method
Physical & Dimensions		
Density	700 kg/m ³	EN 323
Board Length	2400mm	EN 324-1
Board Width	1200mm	EN 324-1
Board Thickness	16mm Nominal	EN 324-1
Board Weight	11 kg/m ²	EN 323
Mechanical		
MOR	≥ 30 MPa	EN 310
MOE	≥ 800 MPa	EN 310
Screw Retention – Face	≥ 800 N	ISO 13894-1
Screw Retention – Edge	≥ 700 N	ISO 13894-1
Surface		
Colour Tolerance	Solid Colours, dE ≤ 2	ASTM D 2244
Gloss Level	≤ 10 GU	ASTM D 523 (60°)
Surface Hardness	≥ 9H+	ASTM D3363
Resistance to surface indentation	≥ 7Kg-f	ASTM D5420
Schauder Hardness – Face	≥ 90D	ASTM D2240
Schauder Hardness – Edge	≥ 20D	ASTM D2240
Resistance to surface wear	≥ 150 Rev	EN 438-2
Resistance to impact	≥ 20N	EN 438-2
Resistance to scratching	≥ Rating 3	EN 438-2
Resistance to wet heat at 100°C	≥ Rating 4	EN 438-2
Resistance to dry heat at 160°C	≥ Rating 4	EN 438-2
Resistance to stains	Rating 5 Group I & II Rating 5 Group III	EN 438-2
Resistance to water vapour	≥ Rating 5	EN 438-2
Resistance to boiling water	≥ Rating 4	EN 438-2
Resistance to light fastening (Xenon-arc)	≥ Gray Scale Rating 4 – Contrast	EN 438-2
Quality		
Surface defects	≤ 1mm ² /m ² – Spots ≤ 10mm/m ² – Liner	EN 438-2
Surface bond strength	≥ Rating 4	ISO 13894-1
Deviation to flatness	≤ 3 mm/meter any direction	ISO 13894-1
Resistance to water (edge swell 24 hrs.)	≤ 1%	ISO 13894-1
Resistance to elevated T° (short term)	No visible change after 1 hour at 80°C.	ISO 13894-1
Resistance to elevated T° (long term)	No visible change after 16 hours at 80°C.	ISO 13894-1
Resistance to water vapor	No visible change after 1 hour exposure	ISO 13894-1
Resistance to climate shock	No visible change after 6 cycles of 4 hours at 80°C followed by 4 hours at -10°C.	EGR Internal Method
Resistance to submersion in water	Withstands full submersion up to 7 days under ambient conditions	EGR Internal Method