

Technical Data Sheet

StyleLex ABS carcass panels are purpose-built for cabinetry in wet and high-humidity environments, including covered outdoor applications. The panel features weather-resistant composite core (WCC) with a quality ABS acrylic surface using advanced PUR reactive hot-melt technology. This construction delivers excellent water and moisture resistance, along with a balanced combination of durability and surface consistency. The smooth, stable surface is suitable for 2PAC and acrylic paint systems and is also available in coloured options for pre-finished applications.

StyleLex 18mm ABS Carcass Panel	
Face Surface	White and coloured textured ABS sheets
Back Surface	White and coloured textured ABS sheets
Core Material	Weatherproof Composite Core (WCC)
Bonding System	Advanced PUR Reactive Hot-Melt Adhesive System

Property	Specification	Test Method
Physical & Dimensions		
Density	685kg/m ³	EN 323
Board Length	2400mm	EN 324-1
Board Width	1200mm	EN 324-1
Board Thickness	18mm Nominal	EN 324-1
Board Weight	12kg/m ²	EN 323
Mechanical		
MOR	≥ 30 MPa	EN 310
MOE	≥ 800 MPa	EN 310
Screw Retention – Face	≥ 700 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	H	ASTM D3363
Resistance to surface indentation	≥ 6Kg-f	ASTM D5420
Schauder Hardness – Face	≥ 60D	ASTM D2240
Schauder Hardness – Edge	≥ 20D	ASTM D2240
Erichsen Hardness	≥ 0.2N	ISO 4586-2
Resistance to stains	≥ Rating 3	EN 438-2
Resistance to steam	≥ Rating 5	EN 438-2
Resistance to boiling water	≥ Rating 4	EN 438-2
Resistance to wet conditions	≥ Rating 4	EN 438-2
Quality		
Surface defects	6 specks ≤ 0.5 mm 6 dimples or raised < 3 mm No pin holes > 0.2 mm	Visual Assessment EGR Method
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 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 30 days under ambient conditions	EGR Internal Method
Limitations		
	Not suitable for direct or indirect sunlight exposure Colour variation due to UV exposure is not covered under warranty Do not expose to temperatures above 70°C	