

Technical Data Sheet

StyleLex ABS carcass panel is a high-performance panel system designed for covered exterior and interior wet-area applications. The construction integrates a weather-resistant composite core (WCC) with a high-quality ABS acrylic surface using advanced PUR reactive hot-melt technology, delivering advanced water and moisture resistance in cabinetry structures. Typical uses include cabinet carcass, support structures, kickboards, drawer bottoms used in alfresco kitchens, outdoor entertainment spaces, laundry areas, mudrooms, and similar high-moisture applications.

StyleLex ABS Carcass Panel	
Face Surface	Matte textured ABS Laminate Sheet
Back Surface	Matte textured ABS Laminate Sheet
Core Material	Weatherproof Composite Core (WCC)
Bonding System	Advanced PUR Reactive Hot-Melt Adhesive System

Property	Specification	Test Method
Physical & Dimensions		
Density	700kg/m ³	EN 323
Board Length	2400mm	EN 324-1
Board Width	1200mm	EN 324-1
Board Thickness	16mm Nominal* 18mm Nominal	EN 324-1
Board Weight	12kg/m ² – 16mm* 13kg/m ² – 18mm	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	H	ASTM D3363
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 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 elevated T° (short term)	No noticeable change	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

*The 16mm ABS carcass panel is specifically designed for drawer bases to ensure compatibility with most hardware systems on the market