

General Properties

Properties	Test Method	Stylelite
Specific gravity	ASTM D-792	1.09
Water absorption	ASTM D-570	<0.5%
Gloss**	AS/NZS 1580.602	>90%
Tensile strength	ASTM D-638	70 MPa
Elongation at Yield	ASTM D-638	4%
Tensile modulus	ASTM D-638	3,000 MPa
Flexural strength	ASTM D-790	100 MPa
Flexural modulus	ASTM D-790	3,000 MPa
Izod impact strength, Milled Notch	ASTM D-256	15J/m
Pencil Hardness**	ASTM D-3363	>4H
Erichsen Hardness**	ISO 4586-2 (DIN EN 438-2)	≥ 0.9N
HDT 264 PSI, 1.82MPa	ASTM D-648	203°F (96°C)
CTE, -30°C to 30°C	ASTM D-696	0.7mm/1000mm/10 °C
Vicat softening point		219°F (104°C)
Continuous service temperature		170°F (77°C)
Max temperature, short term		202°F (95°C)
Degradation temperature		>530°F (> 275°C)

** Internally tested by EGR

Product Description

StyleLite acrylic sheet and laminated panels are a vivid high gloss solution for premium furniture and joinery applications.

StyleLite is available in a range of coextruded solid colours and is offered as sheet for lamination or as a complete laminated panel.

Stylelite offers either an unsurpassed level of high gloss finish or a velvet (matte) finish.

Applications

StyleLite sheet and panel have many applications such as cabinet faces, store fixtures, feature panels and furniture surfaces. The panels are designed for any interior vertical surface and the panels can be edge finished in a variety of ways to suit the needs of the end application. The sheet can be laminated to

many different wood substrates using a variety of bonding methods.

The laminated panels are bonded with high performance PUR adhesive and feature a textured ABS balancing layer.

Chemical Resistance

StyleLite is an inert and very stable polymer and is resistant to the following substances:

Kerosene, Mineral Turpentine, lemon juice, Vinegar, Coffee, Soaps and most mild household cleaners.

StyleLite should not be exposed to the following substances:

Acetone, Methylated Spirits, Glass Cleaners, Abrasive Cleaners, aggressive solvents such as MEK or Toluene.

Edge Finishing

A near seamless appearance can be achieved using edge bands applied with a thin layer of PUR adhesive.

Edge bands options include 1.0 mm matching solid colours and patterns.

Edges can also be bevelled at an angle or rounded using precise CNC machinery.

Lamination

StyleLite sheet can be laminated to a variety of substrates. Best results will be achieved using PUR adhesive applied through an automated lamination process. Kleberit 706, 708 and Jowat 609 adhesive types are typical examples and will deliver a high

Fabrication

Laminated panels can be cut, drilled and shaped using normal woodworking tools and machinery. Best results will be achieved using sharp carbide tipped tools that are designed to remove swarf quickly. Panels should always be clamped or secured firmly during fabrication to avoid vibration and potential for chipping.

The face protective film should be left in place throughout the fabrication and installation process.

Panels should be fixed at a maximum of 300 mm centres for all drawer fronts end panels and other cladding.

Cabinet Doors should have hinges placed at no greater than 400 mm centres.

performance and permanent bond. Other adhesives such as liquid PUR, cross linked EVA or water based contact adhesives can also be used for less technical applications. Typical substrates for laminated panels include MDF, HDF and Plywood. StyleLite acrylic sheet is available two-sided or single sided with an ABS backer.

Fire Properties

Joinery, fittings and furniture are generally exempt from fire performance criteria with most international building standards. For the UK StyleLite would typically comply with a material class 3 when tested in accordance with BS 476: Part 7: 1997.

Building specifiers should always consult with qualified building professionals to ensure that the material is suitable and compliant for the chosen application as per local building code requirements.

Care and Maintenance

For general cleaning use warm soapy water and a clean microfiber cloth. Liquid dishwashing detergent is an ideal cleaner.

For scratches and scuffs the face of the panels can be refinished using liquid polishes suitable for acrylic and a clean microfiber cloth. Manual or machine buffing are both effective. Care must be taken with machine buffing to not overheat the material so a slow buffing speed is desirable.

Solid Colours 1.2 mm Depth Effect

Differences in thickness, substrate, colour form, fixings or adhesive may affect the rating.

