EGR DECOR

Lustrolite®

Technical Data Sheet

Hardcoated 4 mm

High Performing Decorative Acrylic Panels

March 2018

LustroLite Hardcoated 4 mm

Product Description

Lustrolite High Gloss acrylic panels are a versatile product suitable for many interior applications. Lustrolite features either an integrated colour layer or thermally fused printed layer, a thick optically clear layer and a high performance hard coated surface. Lustrolite has the appearance of back painted glass panels but is light, easy to fabricate, has a high impact strength and a high chemical resistance.

Applications

Lustrolite acrylic panels have many applications such as: store fixtures, decorative screens, feature panels, furniture cladding, POP displays, kitchens, cabinet faces, signage, bathrooms, wet areas, and writable surfaces. Lustrolite is designed as a single face product and is not suitable for back lighting; however it will work well for edge lighting using a polished edge.

General Properties

PROPERTIES	TEST METHOD	LUSTROLITE
General Properties		
Specific gravity	ASTM D-792	1.19
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	>8H
Erichsen Hardness**	ISO 4586-2 (DIN EN 438-2)	≥ 1.1N
Abrasion	ASTM D-1044	< 10% Gloss
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

Chemical Resistance

Lustrolite is an inert and very stable polymer. Due to the hard coating present on Lustrolite, it is resistant to a number of chemicals.
Lustrolite resistant to the following substances: Kerosene, Mineral Turpentine, lemon juice, Vinegar, Coffee, Soaps, Bleach, Acetone, Methylated Spirits, 10% Citric Acid and most mild household cleaners and marker board cleaners.
Lustrolite should not be exposed to the following substances: Abrasive Cleaners, aggressive solvents such as MEK or Toluene.

Care and Maintenance

For general cleaning use warm soapy water and a clean microfiber cloth. Liquid dishwashing detergent is an ideal cleaner. Clean regularly to prevent build up of contamination.

Edging Finishing

The edges of Lustrolite 4mm acrylic panels can be sanded and polished, or fitted with a range of Lustrolite Edge Profiles. Brushed Aluminium and Colour Matched PVC profiles are available.

Fabrication

Lustrolite 4mm acrylic panels can be drilled using a blunt drill or cut using a fine cut blade suitable for plastics or aluminum. A circular saw will give the best results. Sacrificial timber board support must be used when cutting Lustrolite. Carbide tipped blades with a minimum of 60 teeth must be used.
If installing over wall tiles, ensure tiles are free of any soap or other build up by cleaning and scrubbing with recognized bathroom cleaning product.
Drilled holes should be no closer than 10mm to the edge of the panel sheet
Lustrolite installs using double sided tape and neutral cure silicone. 4mm expansion gaps are essential around the perimeter of each panel, and between panels.
The face protective film should be left in place throughout the fabrication and installation process.

Fire Properties

Lustrolite complies with many international building standards. The product generates low smoke and moderate flame spread. According to the Building Code of Australia – Lustrolite is a Group 4 product
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

Warranty

Lustrolite 4mm panels are warranted for manufacturing faults for indoor applications only for a period of 7 years, with 10% reducing value per year after the first 3 years. The warranty is void if incorrect installation or cleaning procedures have been used. The warranty does not include fabrication, installation, trade services or other consequential costs.
The responsibility for the removal and installation of a replacement product is with the owner and/or installer of where the manufacturer accepts that the product is completely at fault, a maximum contribution of $200.00 (AU) towards the removal and installation will be considered.

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