

EGR
DECOR

Lustrolite

High Performing Decorative Acrylic Panels

lustrolite.com





Lustrolite

Create inspiring spaces with award winning Lustrolite for use in a variety of decorative applications

Lustrolite's ultra high gloss, ripple free surface combined with brilliant depth and outstanding scratch resistance make it ideal for a multitude of applications.

Combining its beautiful ripple free, highly scratch resistant surface with magnificent panel depth and light weight, Lustrolite is a vastly superior alternative to tiles, glass and other materials.

Superior Features

- Brilliant mirror reflection and high gloss finish
- Significantly less expensive than equivalent glass products
- Effortless to clean due to its advanced scratch and chemical resistant hard coating
- Can be cut, drilled, filed and planed with standard woodworking tools (e.g. circular saws, jigsaws, files and planers)
- Half the weight of equivalent glass panels yet up to 25 times stronger making handling, installation and longevity vastly superior
- Fantastic for hygiene as Lustrolite's smooth surface does not harbor mold or bacteria

Stocked Panel Sizes

Lustrolite is 5/32" (4mm) thick, and are available in a range of panel sizes. Additional sizes may be available subject to MOQ and other conditions.

Thickness	Sheet Size
5/32" (4mm)	114" x 60" (Arctic Only)
	96" x 60"
	96" x 48"
	96" x 39"

Durability

Lustrolite is extremely resilient against scratching, chipping, cracking, warping, staining, peeling and flaking.

Workability and Installation

Lustrolite can easily be worked in the shop or on site due to its lightweight and as it can be cut, sawn, drilled and finished using standard woodworking tools.

Compared to tiles and glass, installation is a breeze requiring only double sided tape and neutral cure silicone.

Opacity and Lighting

Lustrolite is opaque, however it can be effectively side and top lit.

Special lighting accents can also be easily created by routing the color layer and back lighting the panel.

Scratch and Chemical Resistance

A high performance hard coat on the panel's face side provides exceptional scratch and chemical resistance whilst promoting effortless cleaning.

Lustrolite is compatible with a range of chemicals and cleaners including acetic acid, mineral spirits, kerosene, ammonia based cleaners, citrus cleaners, bleach, isopropyl alcohol and TSP.

Environment Friendly

All color pigments used in the manufacture of Lustrolite do not contain heavy metals such as lead.

No Volatile Organic Compounds (VOCs) are produced or released in manufacture or use.

Color Robustness

The permanently color fused layer on the reverse side of Lustrolite is guaranteed not to delaminate or peel and is vastly more resilient to scratching compared to back painted glass.

Hygiene

Panel surfaces do not promote or harbor mold or bacteria growth or transmission.

Cleaning and Maintenance

Panel surfaces can easily be kept clean using warm soapy water and a dampened chamois or microfiber cloth. Harsh and volatile chemicals and cleaners are not required.

LustroLite Color Range



Arctic | Glacier | Safari | Rouge | Titan | Carbon

Due to the nature of the printing process, the colors and images depicted throughout this brochure may vary compared to the actual finished products' colors. Images and colors are to be used as a guide only.

LustroLite - Product Range

Properties	Test Method	Lustrolite
Thickness		5/32" (4mm)
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	70MPa
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	> 6H
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, -22°F to 86°F (-30°C to 30°C)	ASTM D-696	0.65mm/36"/18°F (0.7mm/1,000mm/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)

* 114" x 60" in Arctic Only ** Internally tested by EGR

Chemical Resistance

Lustrolite is chemically resistant to the following substances:

- Kerosene
- Bleach
- Mineral Spirits
- 10% Citric Acid
- Lemon Juice
- Vinegar
- Coffee
- Liquid Soap
- Glass Cleaner

Lustrolite should not be exposed the following substances:

- Acetone
- Methylated Spirit
- Abrasive Cleaners
- Aggressive Solvents such as Toluene.



Fire Properties

Most building codes recognize that most thermoplastics do not meet all the ASTM E 84 testing requirements for Interior Finishes as it's a ceiling based test and therefore unsuitable for thermoplastics that may melt or drip. An alternative testing criteria has been established in the code for Light Transmitting Plastics. Lustrolite complies with the International Building Code for Light Transmitting Plastics (being ASTM D-2943 and ASTM D-635). However Lustrolite is a combustible thermoplastic so appropriate fire precautions should always be observed.

Properties	Test Method (DOT)	Requirement	Result
Extent of Burn Light Transmitting Plastics (IBC2606)	ASTM D-635 - (2016)	Class CC2 = < 2.5"/min (< 63.5mm/min)	< 3/4"/min (< 18.5mm/min)
Smoke Density Rating Light Transmitting Plastics (IBC2606)	ASTM D-2843 (2016)	Must be lower than 75%	3.7%
Smoke Density Light Transmitting Plastics (IBC2606)	ASTM D-2843 (2016)	Must be lower than 75%	Max smoke density 12%
Ignition Temperature Light Transmitting Plastics	ASTM D-1929 (2016)		628°F (331°C)
Spontaneous Ignition Temperature Light Transmitting Plastics (IBC2606)	ASTM D-1929 (2016)	Must be greater than 650°F (343°C)	734°F (390°C)
Flame Spread Index	ASTME 84-08a (2016)	Class 1=0-25, Class 2=26-75 Class 3=76-200	93
Smoke Developed Index	ASTME 84-08a (2016)	Class 1,2,3 = < 450	> 450
Flame Spread	UL94 Horizontal Burning test 94HB (2008)	Burn rate < $1\,^{5}/_{8}$"/min (< 40mm/min)	Average $^{15}/_{16}$"/min (23mm/min)

References to the product's performance under the testing standards above are informational only. Please consult with qualified building professionals to ensure that the material is suitable and compliant for the chosen application as per local building code requirements.

Lustrolite's clean lines, highly reflective surface and intense depth of color complement modern architecture and brighten and enhance virtually any environment









EGR DECOR

Premium Decorative Panel Solutions

EGR Decor is a global supplier of high quality, decorative vertical surfaces for the building industry. We have built more than 50-year heritage of manufacturing, design and technology to become experts in gloss and matte interior and exterior cabinetry for both interior and exterior cabinetry and offer designers, fabricators and homeowners a contemporary range of decorative panelling solutions for commercial and residential applications.



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