

ACRYLITE® EndLighten T

The transparent and brilliant solution for edge-lit applications



ACRYLITE® EndLighten T

The transparent and brilliant solution for lighting design

ACRYLITE® EndLighten T is the perfect solution for edge-lit applications.

Light is fed into the highly transparent material via the edge and is **evenly emitted across the surface**.

Unlike the familiar grade of ACRYLITE® EndLighten, the new material shows no clouding and **emits light at a much more vertical angle to the surface**.

Viewed from the front, the ACRYLITE® EndLighten T sheet is **250% brighter**.

Applications

ACRYLITE® EndLighten T is the ideal material for evenly illuminating a transparent surface with LEDs. The surface glows in the same color as the chosen LED.

Transparent

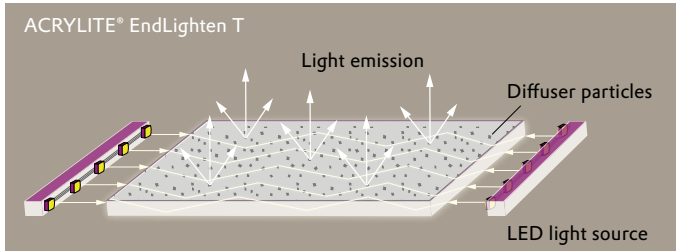
If no light is fed in, the material offers a clear view without any disturbing optical effects due to clouding, halftone printing or inscribed textures. This makes it perfectly suited for architecture and design, furniture, store fixtures or exhibition booths. It can be used for example as an illuminated partition or door infill panel, or for ambient lighting.

Non-transparent

For non-transparent applications, ACRYLITE® EndLighten T is the ideal material for very slim, large-scale displays and picture frames, luminous ceilings and walls, citylight posters and many other uses.

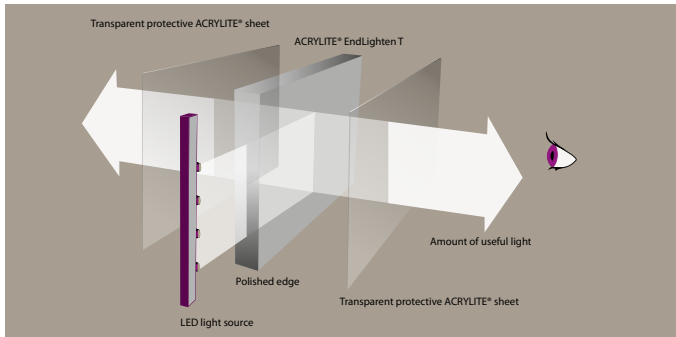


The Technology



Thanks to its embedded diffuser particles, ACRYLITE® EndLighten T specifically reduces total reflection, allowing light rays to exit the sheet via the surfaces too.

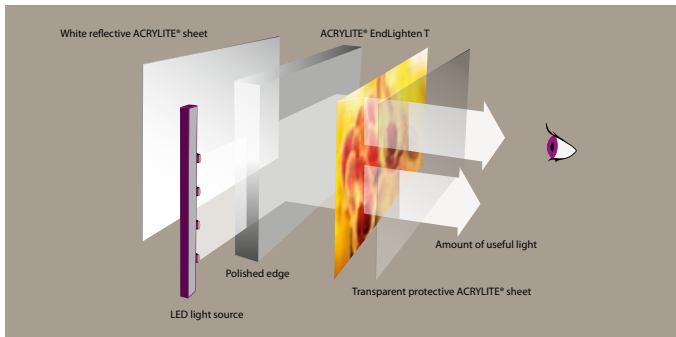
Standard clear PMMA conducts light by means of total internal reflection. Light rays remain inside the sheet and only exit via the edges.



Transparent application

Light is fed into the ACRYLITE® EndLighten T sheet via the edge and is evenly emitted across the surface, which is optimized for vertical viewing.

The ideal configuration for a transparent application comprises one clear-transparent backing panel and one clear-transparent front panel, so that no light is emitted through any scratches on the surface.



Non-transparent applications

Light is fed into the ACRYLITE® EndLighten T sheet via the edge and is evenly emitted across the surface, which is optimized for vertical viewing.

A white reflective sheet is used as the backing material. The image carrier and/or a diffuser sheet can be installed at the front.

Most important information at a glance

- For optimum luminous efficiency, use the suitable grade of ACRYLITE® EndLighten T SM to XXL for the desired area to be illuminated.
- Anything that is bonded, laminated or printed on ACRYLITE® EndLighten T impairs its lighting engineering properties.
- All edges should be polished to reduce diffusion losses.
- To prevent light loss via the unlit edges, they should be reflective. This can be achieved for example by applying a white coating to the inside of the profiles that enclose the sheet edges.
- The LEDs should be flush with the edge as far as possible to ensure that light is correctly fed in.
- For transparent applications, we recommend the use of transparent cover sheets to protect the surface from scratching.
- For non-transparent applications, we recommend the use of a white reflective sheet.

The range

Lighting range with lighting on both sides in inches	Lighting range with lighting on one side in inches	Thickness in mm	Recommended ACRYLITE® EndLighten T grade/grade number
up to 12"	up to 6"	4	OF10 SM
12"-24"	6"-12"	4, 6, 8, 10	OF11 L
24"-48"	12"-24"	4, 6, 8, 10	OF12 XL
48"-78"	24"-40"	8, 10	OF13 XXL

Evonik Cyro LLC is an Evonik Degussa Corporation group company. ACRYLITE® is a registered trademark of Evonik Cyro LLC in the Americas. These same products are manufactured and marketed under the PLEXIGLAS® trade name on the European, Asian, African and Australian continents.

This information and all technical and other advice are based on Evonik's present knowledge and experience. However, Evonik assumes no liability for such information or advice, including the extent to which such information or advice may relate to third party intellectual property rights. Evonik reserves the right to make any changes to information or advice at any time, without prior or subsequent notice.

EVONIK DISCLAIMS ALL REPRESENTATIONS AND WARRANTIES, WHETHER EXPRESS OR IMPLIED, AND SHALL HAVE NO LIABILITY FOR, MERCHANTABILITY OF THE PRODUCT OR ITS FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE), OR OTHERWISE. EVONIK SHALL NOT BE RESPONSIBLE FOR CONSEQUENTIAL, INDIRECT OR INCIDENTAL DAMAGES (INCLUDING LOSS OF PROFITS) OF ANY KIND.

It is the customer's sole responsibility to arrange for inspection and testing of all products by qualified experts. Reference to trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used.

Evonik Cyro LLC is an Evonik Degussa Corporation group company. ACRYLITE® is a registered trademark of Evonik Cyro LLC in the Americas. These same products are manufactured and marketed under the PLEXIGLAS® trade name on the European, Asian, African and Australian continents.

© 2011 Evonik Degussa Corporation.
All Rights Reserved.



EVONIK
INDUSTRIES

Evonik Cyro LLC

379 Interpace Parkway
Parsippany, NJ 07054
USA

PHONE +1 800 631-5384

www.acrylite.net

www.acrylite-shop.com

www.evonik.com

Evonik. Power to create.