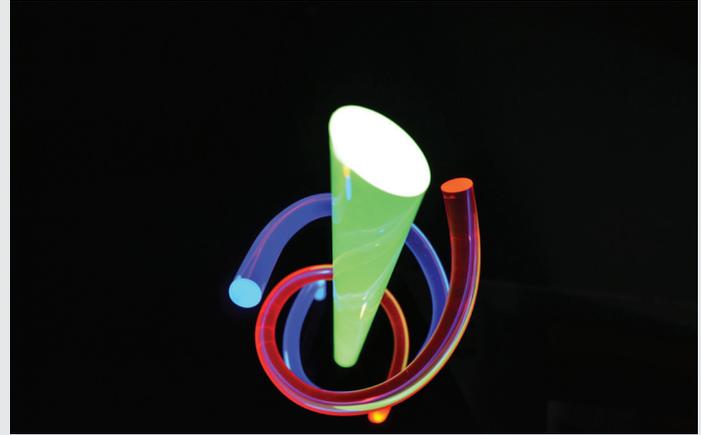
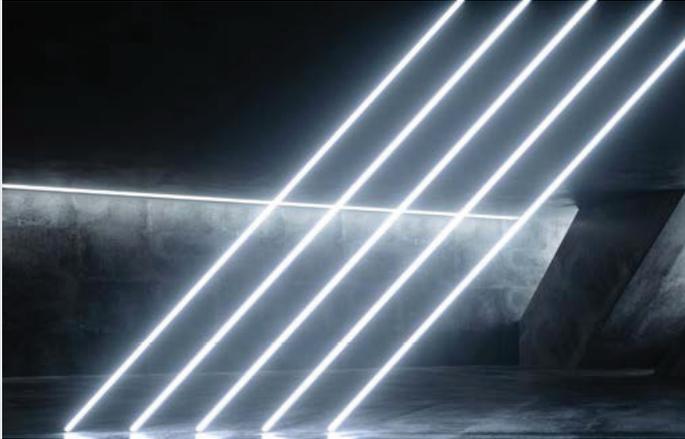


ACRYLITE® LED light guiding edge lit Rod



Product

ACRYLITE® LED light guiding edge lit acrylic rod has unique light conducting properties that distribute light evenly throughout the entire rod surface. As light enters from the end, embedded colorless diffuser particles scatter the light forward and exit the surface at low angles resulting in uniformly bright illumination.

Suitable for many purposes, ACRYLITE® LED light guiding edge lit rod will bring dazzling light intensity to your next project.

Features and Benefits

- Provides even light dispersion
- Easily thermoformed
- Manufactured in three grades for maximum illumination

Product Applications

- Furniture
- Illuminated handrails
- Retail & Set Design
- Artistic Design
- Exhibit and Tradeshows
- Architectural and Decorative Lighting Fixtures

Fabrication

ACRYLITE® LED light guiding edge lit rod can be machined using the same methods as standard extruded acrylic rod. Diamond milling or flame polishing the rough end will reduce loss of light upon entry by as much as 6% compared to a sawed edge. It is possible to matte the surface of ACRYLITE® LED light guiding edge lit rod through sandblasting or matte lacquer. However, this can lead to irregular lighting and decrease the luminance as the rough surface disperses the light.

Uniform Illumination

Illuminated by LED lights at one or both ends, ACRYLITE® LED light guiding edge lit rod disperses light evenly throughout, whereas conventional acrylic rod glow only at one end. Additionally, ACRYLITE® LED light guiding edge lit rod can be easily formed into shapes and letters without compromising functionality. For thermoforming, rods can be held vertically in an oven to the same temperatures as extruded sheet (290-320°F) until soft, and then set into a fixture to hold the shape. To keep part of the rod straight, wrap it in a heat-resistant cloth such as fiberglass during heating.

ACRYLITE® LED light guiding edge lit Rod

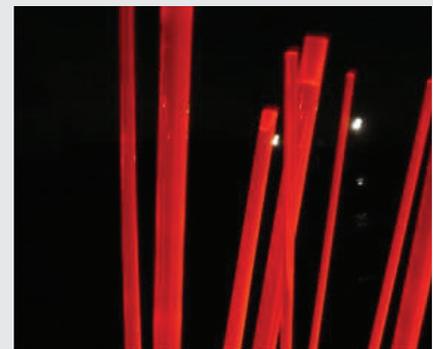
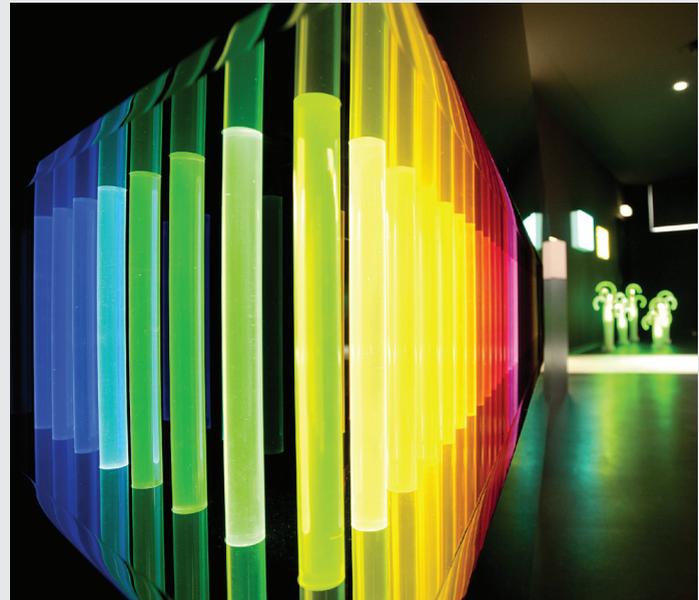
ACRYLITE®

Product Specification

Grade	Outer Diameter	Recommended light length for illumination on both ends*
OE011 L	.787" 1.57"	Up to 24"
OE011 XL	.787" 1.57"	24" - 48"
OE011 XXL	.787" 1.57"	48" - 78.7"

ACRYLITE® LED light guiding edge lit rod is available in 2000mm (78.7") length.

* Light length assumes using 120' view angle light source. Using a narrower beam will increase light length with uniform results. When lighting from one end, light length is cut in half.



Roehm America LLC
Acrylic Products

1796 Main Street
Sanford, ME 04073
USA

www.acrylite.co
www.roehm.com

1-855-202-7467
info@acrylite.co

Röhm GmbH and its affiliates are a worldwide manufacturer of PMMA products sold under the PLEXIGLAS® trademark on the European, Asian, African and Australian continents and under the ACRYLITE® trademark in the Americas.

Fire Precautions

ACRYLITE® sheet is a combustible thermoplastic. Precautions should be taken to protect this material from flames and high heat sources. ACRYLITE® sheet usually burns rapidly to completion if not extinguished. The products of combustion, if sufficient air is present, are carbon dioxide and water. However, in many fires sufficient air will not be available and toxic carbon monoxide will be formed, as it will when other common combustible materials are burned. We urge good judgement in the use of this versatile material and recommend that building codes be followed carefully to assure it is used properly.

Compatibility

Like other plastic materials, ACRYLITE® sheet is subject to crazing, cracking or discoloration if brought into contact with incompatible materials. These materials may include cleaners, polishes, adhesives, sealants, gasketing or packaging materials, cutting emulsions, etc. See the Tech Briefs in this series for more information, or contact your ACRYLITE® sheet Distributor for information on a specific product.

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether expressed or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technical progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products should be used.