

ACRYLITE® Tube



Photo © Bruce Damonte

Product

ACRYLITE® acrylic tubes are the highest quality tubes on the market, delivering superior clarity, performance and extended durability. These tubes are the clearest on the market today. ACRYLITE® acrylic tubes are characterized by their flawless optics and perfectly-smooth surface, free from striation.

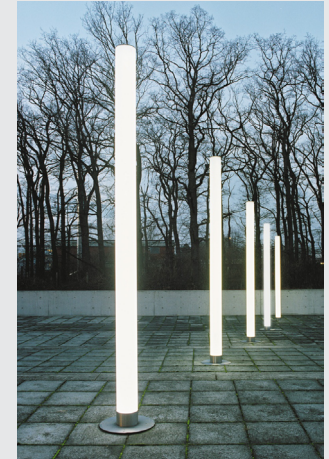
Features and Benefits

- Clear, distortion free viewing
- Dimensional accuracy and excellent circularity
- Superior UV resistance and weatherability
- 10-year non-yellowing warranty for clear tubes
- Enhanced chemical resistance due to higher molecular weight
- 11X stronger than glass for safe, strong installations
- Half the weight of glass for maximum design
- Provides best possible light in luminaries
- Flexibility

Applications

The optical clarity of ACRYLITE® tubes allow for a clear view of details making them well suited for store fixtures and point-of-purchase (P-O-P) displays. ACRYLITE® tubes are suitable for food contact under 21CFR177.1010 and are ideal for food displays*. Other applications include:

- Artistic design
- Furniture



- Lighting fixtures
- Exhibit, tradeshow & set design
- Food dispensers / pneumatic tubes

Product Compliance

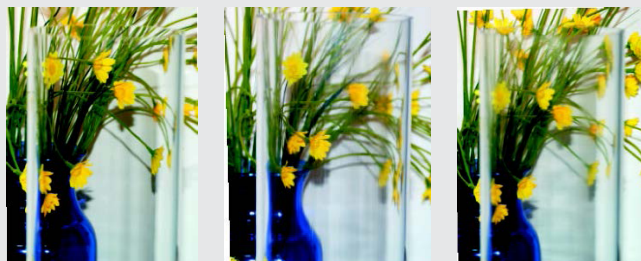
ACRYLITE® colorless materials have been tested and meet the regulatory requirements for all use conditions, up to and including hot-filled or pasteurized above 150 °F, for all food types except those containing more than 8% alcohol. Refer to [21CFR177.110](#) (see Condition C, tables 1 & 2 in 21CFR176.170(c)).

Physical Properties Comparison

	Roehm	Competitor A	Competitor B	Competitor C
Nominal Diameter mm	100	100	100	100
Avg Measured Diameter mm	99.1	101.3	94.7	101.7
Vicat Softening Temp °C	101.6	88.1	100.3	90.1
Molecular Weight	145000	91000	96000	96000
Visual Appearance	Very minor distortion	Noticeable distortion, heavy numerous die lines	Noticeable distortion, heavy numerous die lines	Noticeable distortion, heavy numerous die lines

Optical Clarity

The industry leading optical clarity of ACRYLITE® tubes is immediately evident when compared to lesser competitive products showing noticeable distortion and die lines.



Roehm

Competitor A

Competitor B

Product Portfolio

SATINICE TUBES

ACRYLITE® Satinice tubes are manufactured with a light diffusing polymer which creates a frosted, velvety nonglare surface. They are available in a frosted colorless, OD010 DF, and frosted white finish, WD300 DF. The frosted finish hides fingerprints and scratches, while maintaining high light transmission. ACRYLITE® Satinice tubes are ideal for exterior and interior lighting applications, as well as store fixtures and P-O-P displays.

CLEAR OA070 GT TUBES

ACRYLITE® OA070 GT tubes have the highest clarity and optical brilliance on the market that allow for a clear view of all details. These tubes are well suited for store fixtures, point-of-purchase (P-O-P) displays and for food contact under 21CFR177.1010. In addition, ACRYLITE® OA070 GT tubes have a 10-year warranty.

WHITE WN970 GT TUBES

ACRYLITE® WN970 GT tubes are a 7328 shade of white. These high-gloss white tubes have no noticeable die or distortion lines and provide even illumination, with no hot spots, when internally lit. They are ideal for internal and external lighting applications.

Product Specifications for Satinice White (WD300 DF)

Outer Diameter	Wall Thickness	Length	Tubes/ Pallet	Tubes/Box
inches				
8	0.118	96	20	2
10	0.138	96	12	1
12	0.157	96	6	1

Product Specifications for Satinice Clear (OD010 DF)

Outer Diameter	Wall Thickness	Length	Tubes/ Pallet	Tubes/ Box
inches				
2	0.118	72 and 96	290	10
3	0.118	72 and 96	120	8
4	0.118	72 and 96	70	6
6	0.118	72 and 96	35	4
8	0.118	72 and 96	20	2
10	0.138	72 and 96	12	1
12	0.157	72 and 96	6	1

Product Specifications for Clear (OA070 GT)

Outer Diameter	Wall Thickness	Length	Tubes/ Pallet	Tubes/ Box
inches				
2	0.118	72 and 96	290	10
3	0.118	72 and 96	120	8
4	0.118	72 and 96	70	6
6	0.118	72 and 96	35	4
8	0.118	72 and 96	20	2
10	0.138	72 and 96	12	1
12	0.157	72 and 96	6	1

Product Specifications for White (WN970 GT)

Outer Diameter	Wall Thickness	Length	Tubes/ Pallet	Tubes/ Box
inches				
2	0.118	96	290	10
3	0.118	96	120	8
4	0.118	96	70	6
6	0.118	96	35	4
8	0.118	96	20	2
10	0.138	96	12	1
12	0.157	96	6	1

Tolerance and Nominal Weight (for all tubes):

Tolerance					Tube Length		
					76"	96"	120"
Tube OD (in)	Outside Diameter	Wall Thickness	Tube OD (in)	lb/ft	lbs. per tube		
2.0	+/- 0.6mm	+/- 0.3mm	2.0	0.36	2.3	2.3	3.0
3.0	+/- 0.8mm	+/- 0.35mm	3.0	0.55	3.5	4.4	5.5
4.0	+/- 1.2mm	+/- 0.35mm	4.0	0.74	4.7	5.9	7.4
6.0	+/- 1.5mm	+/- 0.4mm	6.0	1.13	7.1	9.0	11.3
8.0	+/- 2.0mm	+/- 0.4mm	8.0	1.51	9.6	12.1	15.1
10.0	+/- 2.0mm	+/- 0.5mm	10.0	2.21	14.0	17.6	22.1
12.0	+/- 2.0mm	+/- 0.5mm	12.0	3.01	19.1	24.1	30.1

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.