

# ICC-ES Evaluation Report


ESR-1260

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<b>DIVISION: 08 00 00—</b> <b>OPENINGS</b>  <b>Section: 08 84 00—</b> <b>Plastic Glazing</b>	<b>REPORT HOLDER:</b>  <b>ROEHM AMERICA, LLC</b>	<b>EVALUATION SUBJECT:</b>  <b>ACRYLITE® ACRYLIC</b> <b>PLASTIC SHEETS AND</b> <b>MOLDING AND</b> <b>EXTRUSION</b> <b>COMPOUNDS</b>	
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## 1.0 EVALUATION SCOPE

**Compliance with the following codes:**

- 2021, 2018, 2015 and 2012 [International Building Code® \(IBC\)](#)

**Properties evaluated:**

- Light-transmitting plastic
- Durability
- Surface burning characteristics

## 2.0 USES

ACRYLITE® acrylic sheets are light-transmitting plastics complying with IBC Section 2606.4 intended for use in interior or exterior applications as described for the individual products in Section 4.0.

ACRYLITE® Premium in 0.118-inch (3 mm) thickness may be used as an interior finish complying with IBC Section 803.1.

ACRYLITE® molding and extrusion compounds are used by independent manufacturers to produce a finished product, which must be recognized in a separate ICC-ES Evaluation Report.

## 3.0 DESCRIPTION

### 3.1 Acrylic Sheets:

This report recognizes five grades of ACRYLITE® sheet: ACRYLITE® Premium, ACRYLITE® Resist 65, ACRYLITE® Resist 75, ACRYLITE® LED Sign Grade and ACRYLITE® Optical Mar Resistant. See [Table 1](#) for descriptions of the grades, allowable uniform thicknesses and light-transmitting plastic classifications.

### 3.2 Acrylic Molding and Extrusion Compounds:

This report recognizes fourteen grades of ACRYLITE® acrylic molding and extrusion compounds: six standard grades, seven impact-modified grades and one diffusion grade. The acrylic compounds are supplied in pellet form and are injection-molded or extruded to form a finished product. See [Table 1](#) for descriptions of the grades, allowable thicknesses and plastic classifications.

### 3.3 Surface-burning Characteristics:

When tested in accordance with ASTM E84, ACRYLITE<sup>®</sup> Premium has an interior finish classification in accordance with 2021 and 2018 IBC Section 803.1.2 (2015 and 2012 IBC Section 803.1.1), as indicated in [Table 2](#).

## 4.0 INSTALLATION

Installation of the plastic sheets must comply with the applicable code for the intended use. ACRYLITE<sup>®</sup> Premium, ACRYLITE<sup>®</sup> Resist 65, ACRYLITE<sup>®</sup> Resist 75 and ACRYLITE<sup>®</sup> LED Sign Grade may be used in interior and exterior applications.

ACRYLITE<sup>®</sup> Optical Mar Resistant may be used in interior applications only.

Installation of a finished product made from an ACRYLITE<sup>®</sup> molding and extrusion compound must be as stated in the separate ICC-ES Evaluation Report.

## 5.0 CONDITIONS OF USE:

The products described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 The products are manufactured, installed and identified as set forth in this report, the applicable code and the manufacturer's published instructions. In the event of a conflict between the manufacturer's published installations and this report, this report governs.
- 5.2 Except for as provided in Section 5.3, end use of the products requires compliance, to the satisfaction of the code official, with requirements of code sections applicable to end use (such as, but not limited to, structural, durability, impact resistance, and drop-out performance).
- 5.3 Application in skylights, exterior walls, and roof panels is limited to ACRYLITE<sup>®</sup> Premium plastic sheets in thicknesses from 0.118-inch to 0.472-inch (3 to 12 mm) and ACRYLITE<sup>®</sup> Resist 65, ACRYLITE<sup>®</sup> Resist 75 and ACRYLITE<sup>®</sup> LED Sign Grade plastic sheets in thicknesses from 0.06-inch to 0.236-inch (1.5 to 6 mm) when specifically recognized in a current ICC-ES Report.

## 6.0 EVIDENCE SUBMITTED

- 6.1 Reports of tests in accordance with ASTM D2843, ASTM D1929 and ASTM D635.
- 6.2 Reports of weathering tests (ultraviolet-light tests and comparison tension tests) in accordance with Section 4.1.2 of the [ICC-ES Acceptance Criteria for Plastic Glazed Skylights \(AC16\)](#), dated April 2020 (editorially revised August 2020) on ACRYLITE<sup>®</sup> Premium plastic sheets in thicknesses of 0.118-inch and 0.472-inch (3 and 12 mm) and ACRYLITE<sup>®</sup> Resist 65, ACRYLITE<sup>®</sup> Resist 75 and ACRYLITE<sup>®</sup> LED Sign Grade plastic sheets in thicknesses of 0.06-inch and 0.236-inch (1.5 and 6 mm).
- 6.3 Reports of tests in accordance with ASTM E84 for the 0.118-inch (3 mm) ACRYLITE<sup>®</sup> Premium.
- 6.4 A quality-control manual.
- 6.5 Manufacturer's published installation instructions.

## 7.0 IDENTIFICATION

- 7.1 Each Roehm America LLC plastic glazing sheet or bundle of sheets and the packaging of molding and extrusion compounds are labeled with the manufacturer's name (Roehm America LLC) and address, the product name, the lot number, the thickness (for plastic sheets), the CC2 plastic classification, and the evaluation report number (ESR-1260).
- 7.2 The report holder's contact information is as follows:

**ROEHM AMERICA LLC**  
**1796 MAIN STREET**  
**SANFORD, MAINE 04073**  
**(207) 324-6000**  
[www.acrylite.net](http://www.acrylite.net)  
[www.acrylite-polymers.com](http://www.acrylite-polymers.com)

**TABLE 1—PRODUCT DESCRIPTIONS AND LIGHT-TRANSMITTING PLASTIC CLASSIFICATIONS**

NO.	PRODUCT NAME	DESCRIPTION	UNIFORM THICKNESS (inch)		PLASTIC CLASSIFICATION
			Minimum	Maximum	
1.	ACRYLITE <sup>®</sup> Premium	A monolithic acrylic sheet available in clear and a variety of colors	0.055	0.50	CC2
2.	ACRYLITE <sup>®</sup> Resist 65	A clear monolithic acrylic sheet.	0.060	0.236	CC2
3.	ACRYLITE <sup>®</sup> Resist 75	A monolithic acrylic sheet available in clear and white	0.060	0.236	CC2
4.	ACRYLITE <sup>®</sup> LED Sign Grade	A monolithic acrylic sheet available in clear and a variety of colors	0.060	0.236	CC2
5.	ACRYLITE <sup>®</sup> Optical Mar Resistant	A monolithic acrylic sheet with an abrasion-resistant coating applied to one or both surfaces	0.060	0.50	CC2
6.	ACRYLITE <sup>®</sup> 8N	Acrylic molding and extrusion compound (standard grade)	0.062	0.25	CC2
7.	ACRYLITE <sup>®</sup> S11		0.062	0.25	CC2
8.	ACRYLITE <sup>®</sup> H10		0.060	0.25	CC2
9.	ACRYLITE <sup>®</sup> H12		0.060	0.25	CC2
10.	ACRYLITE <sup>®</sup> H15		0.060	0.25	CC2
11.	ACRYLITE <sup>®</sup> M30		0.060	0.25	CC2
12.	ACRYLITE <sup>®</sup> Resist ZK-P	Acrylic molding and extrusion compound (impact-modified grade)	0.059	0.25	CC2
13.	ACRYLITE <sup>®</sup> Resist ZK-M		0.059	0.25	CC2
14.	ACRYLITE <sup>®</sup> Resist ZK-6		0.059	0.25	CC2
15.	ACRYLITE <sup>®</sup> Resist ZK-D		0.060	0.25	CC2
16.	ACRYLITE <sup>®</sup> Resist ZK-F		0.060	0.25	CC2
17.	ACRYLITE <sup>®</sup> Resist ZK-V		0.060	0.25	CC2
18.	ACRYLITE <sup>®</sup> Resist ZK-X		0.060	0.25	CC2
19.	ACRYLITE <sup>®</sup> Satinice df	Acrylic molding and extrusion compound (diffusion grade)	0.062	0.125	CC2

For SI: 1 inch = 25.4 mm.

**TABLE 2—INTERIOR FINISH CLASSIFICATIONS**

NO.	PRODUCT NAME	UNIFORM THICKNESS (inch)	INTERIOR FINISH CLASSIFICATION
1.	ACRYLITE <sup>®</sup> Premium	0.118	C