DIVISION: 08 00 00—OPENINGS  
Section: 08 84 00—Plastic Glazing

REPORT HOLDER:
EVONIK CYRO LLC

EVALUATION SUBJECT:
ACRYLITE® OPTICAL MAR-RESISTANT (MR) GRADE, EXTRUDED (FF), LED SIGN GRADE (RESIST SG), AND RESIST™ 65 ACRYLIC PLASTIC SHEETS;
ACRYLITE® H10, H12, H15, M30, 8N, S11, ACRYLIC MOLDING AND EXTRUSION COMPOUNDS;
ACRYLITE® SATINICE DF ACRYLIC MOLDING AND EXTRUSION COMPOUND; AND
ACRYLITE RESIST™ ZK-6, ZK-D, ZK-F, ZK-M, ZK-P, ZK-V AND ZK-X IMPACT ACRYLIC MOLDING AND EXTRUSION COMPOUNDS

1.0 EVALUATION SCOPE
Compliance with the following code:
2012 International Building Code® (IBC)
Properties evaluated:
- Light-transmitting plastic
- Durability

2.0 USES
The ACRYLITE® Optical mar-resistant (MR) Grade, ACRYLITE® extruded (FF), ACRYLITE® LED sign grade (Resist SG), and ACRYLITE® Resist™ 65 plastic sheets may be used as light-transmitting plastics, where required by the applicable code.

The ACRYLITE® extruded (FF) plastic sheet, installed with a 0.118-inch (3 mm) thickness, may be used as an interior finish, where required by the applicable code.

End use of the plastic sheets is outside the scope of this report, thereby requiring 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).

Molding and extrusions compounds recognized in this report are used by independent manufacturers to produce plastic sheets. The finished product must be recognized in a separate ICC-ES Evaluation Report.

3.0 DESCRIPTION
3.1 Acrylic Sheets:
This report recognizes four grades of the ACRYLITE® sheet: ACRYLITE® Optical mar-resistant (MR) Grade, ACRYLITE® extruded (FF), ACRYLITE® Resist™ 65, ACRYLITE® LED sign grade (Resist SG). See Table 1 for descriptions of the products, allowable uniform thicknesses and light-transmitting plastic classifications.

3.2 Acrylic Molding and Extrusion Compounds:
This report recognizes six grades of the ACRYLITE® acrylic molding and extrusion compounds (ACRYLITE® 8N, S11, H10, H12, H15 and M30), seven grades of ACRYLITE® Resist™ impact acrylic molding and extrusion compounds (ACRYLITE® Resist™ ZK-6, ZK-D, ZK-F, ZK-M, ZK-P, ZK-V and ZK-X); and the ACRYLITE® Satinice df acrylic molding and extrusion compounds. The acrylic compounds are supplied in pellet form and are injection-molded or extruded to form the final product. See Table 1 for descriptions of the products, allowable thicknesses and plastic classifications.

4.0 INSTALLATION
Installation of the plastic sheets must comply with the applicable code for the intended use.

Installation of the molding and extrusion compounds must be as stated in the separate ICC-ES Evaluation Report.

5.0 CONDITIONS OF USE
The Evonik Cyro LLC plastic sheets and molding and extrusion compounds 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 instructions.

5.2 Except for as provided in Section 5.3, end use of the products requires justification of compliance with appropriate code requirements, including structural and durability considerations.

5.3 Application in skylights, exterior walls, and roof panels is limited to 0.118- to 0.472-inch-thick (3 to 12 mm) ACRYLITE® extruded (FF) plastic sheets and 0.06- to 0.236-inch-thick (1.5 to 5.99 mm) ACRYLITE® Resist™ 65 plastic sheets 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 2017 (editorially revised December 2018) on 0.118- and 0.472-inch-thick (3 and 12 mm) ACRYLITE® extruded FF.

6.3 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 2017 (editorially revised December 2018) on 0.118- and 0.472-inch-thick (3 and 12 mm) ACRYLITE® extruded FF.

6.4 Reports of tests in accordance with ASTM E84 for the 0.118-inch (3 mm) ACRYLITE® extruded FF.

6.5 A quality-control manual.

6.6 Manufacturer’s published installation instructions.

7.0 IDENTIFICATION

7.1 Each Evonik Cyro LLC plastic glazing sheet or bundle of sheets and the packaging of molding and extrusion compounds are labeled with the manufacturer’s name (Evonik Cyro LLC) and address, the product name, the lot number, the thickness (for plastic glazing sheets), the CC2 plastic classification, and the evaluation report number (ESR-1260).

7.2 The report holder’s contact information is as follows:

**EVONIK CYRO 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)

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

<table>
<thead>
<tr>
<th>NO.</th>
<th>PRODUCT NAME</th>
<th>DESCRIPTION</th>
<th>UNIFORM THICKNESS (inch)</th>
<th>PLASTIC CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>ACRYLITE® extruded (FF)¹</td>
<td>A monolithic acrylic sheet</td>
<td>0.055 – 0.50</td>
<td>CC2</td>
</tr>
<tr>
<td>2.</td>
<td>ACRYLITE® Optical mar-resistant (MR) Grade¹</td>
<td>A monolithic acrylic sheet with an abrasion-resistant coating applied to one or both surfaces</td>
<td>0.060 – 0.50</td>
<td>CC2</td>
</tr>
<tr>
<td>3.</td>
<td>ACRYLITE® LED sign grade (Resist SG)</td>
<td>Monolithic acrylic sheet</td>
<td>0.118 – 0.236</td>
<td>CC2</td>
</tr>
<tr>
<td>4.</td>
<td>ACRYLITE® Resist™ 65¹</td>
<td>A rigid, monolithic acrylic sheet, available in colorless and a variety of translucent and opaque tints</td>
<td>0.060 – 0.236</td>
<td>CC2</td>
</tr>
<tr>
<td>5.</td>
<td>ACRYLITE® 8N</td>
<td>Acrylic molding and extrusion compound</td>
<td>0.062 – 0.25</td>
<td>CC2</td>
</tr>
<tr>
<td>6.</td>
<td>ACRYLITE® S11</td>
<td>Acrylic molding and extrusion compound</td>
<td>0.062 – 0.25</td>
<td>CC2</td>
</tr>
<tr>
<td>7.</td>
<td>ACRYLITE® H10</td>
<td>Acrylic molding and extrusion compound</td>
<td>0.060 – 0.25</td>
<td>CC2</td>
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<td>8.</td>
<td>ACRYLITE® H12</td>
<td>Acrylic molding and extrusion compound</td>
<td>0.060 – 0.25</td>
<td>CC2</td>
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<td>9.</td>
<td>ACRYLITE® H15</td>
<td>Acrylic molding and extrusion compound</td>
<td>0.060 – 0.25</td>
<td>CC2</td>
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<td>10.</td>
<td>ACRYLITE® M30</td>
<td>Acrylic molding and extrusion compound</td>
<td>0.060 – 0.25</td>
<td>CC2</td>
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<tr>
<td>11.</td>
<td>ACRYLITE® Satinice df</td>
<td>Acrylic molding and extrusion compound</td>
<td>0.062 – 0.125</td>
<td>CC2</td>
</tr>
<tr>
<td>12.</td>
<td>ACRYLITE® Resist™ ZK-P</td>
<td>Acrylic molding and extrusion compound</td>
<td>0.059 – 0.25</td>
<td>CC2</td>
</tr>
<tr>
<td>13.</td>
<td>ACRYLITE® Resist™ ZK-M</td>
<td>Acrylic molding and extrusion compound</td>
<td>0.059 – 0.25</td>
<td>CC2</td>
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<td>14.</td>
<td>ACRYLITE® Resist™ ZK-6</td>
<td>Acrylic molding and extrusion compound</td>
<td>0.059 – 0.25</td>
<td>CC2</td>
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<td>15.</td>
<td>ACRYLITE® Resist™ ZK-D</td>
<td>Acrylic molding and extrusion compound</td>
<td>0.060 – 0.25</td>
<td>CC2</td>
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<td>16.</td>
<td>ACRYLITE® Resist™ ZK-F</td>
<td>Acrylic molding and extrusion compound</td>
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<td>CC2</td>
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<td>17.</td>
<td>ACRYLITE® Resist™ ZK-V</td>
<td>Acrylic molding and extrusion compound</td>
<td>0.060 – 0.25</td>
<td>CC2</td>
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<td>18.</td>
<td>ACRYLITE® Resist™ ZK-X</td>
<td>Acrylic molding and extrusion compound</td>
<td>0.060 – 0.25</td>
<td>CC2</td>
</tr>
</tbody>
</table>

For SI: 1 inch = 25.4 mm.

¹The plastic can be used in hazardous locations described in Section 2406.2 of the IBC.

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### TABLE 2—INTERIOR FINISH CLASSIFICATIONS

<table>
<thead>
<tr>
<th>NO.</th>
<th>PRODUCT NAME</th>
<th>UNIFORM THICKNESS (inch)</th>
<th>INTERIOR FINISH CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>ACRYLITE® extruded (FF)</td>
<td>0.118</td>
<td>C</td>
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</tbody>
</table>