

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Lumonyx Polymer Panels.

1.2 RELATED SECTIONS

- A. Section 08630 - Metal-Framed Skylights.
- B. Section 07900 - Joint Sealers.
- C. Section 08800 - Glazing

1.3 REFERENCES

- A. ASTM Z 97.1 - American National Standard for Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test.
- B. ASTM D 256 - Standard Test Method for Determining the Pendulum Impact Resistance of Notched Specimens of Plastics.
- C. ASTM D 638 - Standard Test Method for Tensile Properties of Plastics.
- D. ASTM D 790 - Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
- E. ASTM D 792 - Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement.
- F. ASTM D 1929 - Standard Test Method for Ignition Properties of Plastics.
- G. ASTM F 1233 - Standard Test Method for Security Glazing Materials and Systems.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Physical properties including data on material weight, light transmission and thermal expansion.Preparation instructions and recommendations
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods and procedures, including edge engagement guidelines.
- C. Verification Samples: Submit samples for each finish product specified, two samples, minimum size 2 inches by 3 inches, representing actual product.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver Lumonyx Polymer sheets on enclosed pallets.
- B. Store products in manufacturer's unopened packaging until ready for installation.
- C. Store in dry, well-ventilated and covered areas at temperatures below 90 degrees F.
- D. Handle sheets carefully to prevent damage; do not drop, slide, or drag.

1.6 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.7 WARRANTY

- A. Provide Lumonyx Polymer sheets' manufacturer's written warranty covering breakage.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Provide products manufactured by Lumonyx, Inc.
4400 Oneal Street, Greenville, TX 75401 Tel (903) 454-0904 Fax (903) 454-3642
info@lumonyx.com www.lumonyx.com
- B. Substitutions are not allowed.

2.2 LUMONYX POLYMER SHEET

- A. Lumonyx Polymer Sheet - General: Comply with properties as follows:
 - 1. Specific gravity: 1.2, per ASTM D 792.
 - 2. Self ignition temperature: 1040 degrees F, per ASTM D 1929.
 - 3. Flash ignition temperature: 800 degrees F, per ASTM D 1929.
 - 4. Thickness: _____
 - 5. Color: _____

PART 3 EXECUTION

3.1 EXAMINATION

- A. Inspect pallets upon delivery for evidence of damage.
- B. Inspect and verify that openings are correct size and conform to recommendations of the Lumonyx Polymer sheet manufacturer.

3.2 PREPARATION

- A. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- B. Immediately prior to installation, expose glazing edges of plastic sheet by peeling back factory-applied protective masking to a dimension sufficient for edge engagement.

3.3 INSTALLATION

- A. Install Lumonyx Polymer sheets in accordance with manufacturer's recommendations for edge engagement and expansion allowance.
- B. Employ only sealants and glazing accessories that have been approved by manufacturer of Lumonyx Polymer sheet.
- C. Remove protective masking immediately after all installation operations are completed.

3.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Affix polyethylene film or other covering approved by alabaster manufacturer to framing members, as required to protect plastic glazing from other construction operations.
- C. Repair or replace damaged products before Substantial Completion.

3.5 SCHEDULE

END OF SECTION