

# EASTMAN PERFORMANCE FILMS, LLC TEST REPORT

**SCOPE OF WORK**

SAFETY GLAZING MATERIAL TESTING OF R 20, 5 MIL FILM ON 1/4" GLASS

**REPORT NUMBER**

J3629.09-119-37

**TEST DATE**

06/04/19

**ISSUE DATE**

06/28/19

**RECORD RETENTION END DATE**

06/04/23

**PAGES**

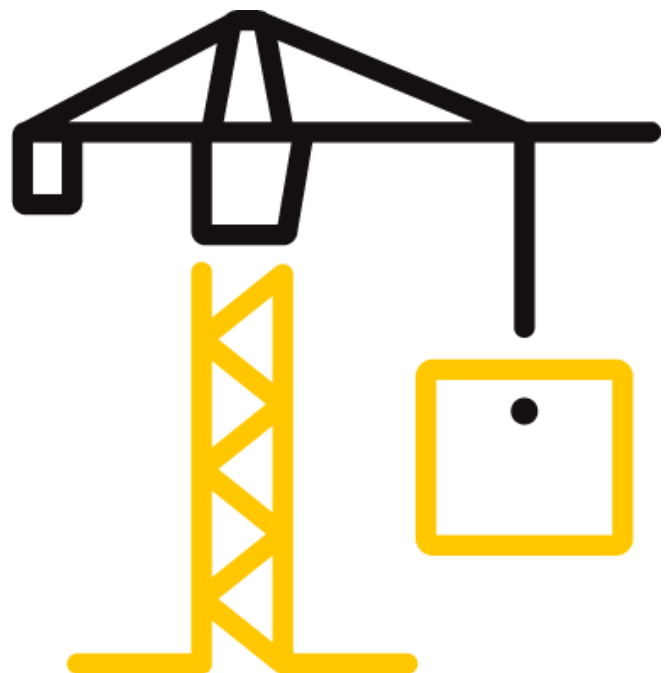
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## TEST REPORT FOR EASTMAN PERFORMANCE FILMS, LLC

Report No.: J3629.09-119-37

Date: 06/28/19

### REPORT ISSUED TO

#### EASTMAN PERFORMANCE FILMS, LLC

4210 The Great Road  
Fieldale, Virginia 24089

### SECTION 1

#### SCOPE

Intertek Building & Construction (B&C) was contracted by Eastman Performance Films, LLC - Fieldale, Virginia to perform safety glazing material performance testing in accordance with ANSI Z97.1 and CPSC 16 CFR 1201 of their R 20, 5 mil film on 1/4" thick annealed glass. Results obtained are tested values and were secured by using the designated test methods. Testing was conducted at the Intertek B&C test facility in York, Pennsylvania. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

### SECTION 2

#### SUMMARY OF TEST RESULTS

**Film:** R 20, 5 mil

**Glass:** 1/4" annealed glass

**Glazing Type:** Organic Coated Glass

IMPACT TEST RESULTS			
STANDARD	CLASSIFICATION	DROP HEIGHT	RESULT <sup>1</sup>
ANSI	Class B	18 in. (457 mm)	Pass
CPSC	Category I	18 in. (457 mm)	Pass

<sup>1</sup>The performance evaluation of the product identified in this test report was isolated to impact testing only, accelerated weathering/aging and thermal tests were not performed.

For INTERTEK B&C:

<b>COMPLETED BY:</b>	Todd M. Wilt	<b>REVIEWED BY:</b>	Virgal T. Mickley, Jr., P.E.
<b>TITLE:</b>	Lead Technician	<b>TITLE:</b>	Senior Staff Engineer
<b>SIGNATURE:</b>		<b>SIGNATURE:</b>	
<b>DATE:</b>	06/28/19	<b>DATE:</b>	06/28/19

TMW:vtm/aas

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### SECTION 3

#### TEST METHOD(S)

The specimens were evaluated in accordance with the following:

**ANSI Z97.1-2015**, *For safety glazing materials used in buildings - safety performance specifications and methods of test*, American National Standard

**CPSC 16 CFR 1201**, *Safety Standard for Architectural Glazing Materials*, Consumer Product Safety Commission (16 CFR Ch. II, 1-1-03 Edition)

### SECTION 4

#### MATERIAL SOURCE

Eastman Performance Films, LLC - Fieldale, Virginia applied R 20, 5 mil film to 1/4" clear annealed glass at Intertek in York, Pennsylvania between 04/02/19 and 04/04/19. The specimens were conditioned before and during testing between 65° to 85°F.

### SECTION 5

#### SAMPLE RETENTION

All test specimens were destroyed by test or by personnel and have been disposed of as trash.

### SECTION 6

#### EQUIPMENT

ASSET #	DESCRIPTION	CAL DUE DATE
63303	Impact Frame	09/11/19
65882	Impactor (100lb.)	11/15/19
65852	Calipers/Thickness Gauge	09/11/19
INT00433	Thermometer	01/17/20
62039	Weight Scale	09/11/19

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### SECTION 7

#### LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Charles Adiasor	Eastman Performance Films, LLC
Todd M. Wilt	Intertek B&C
Robert G. Spayd	Intertek B&C

### SECTION 8

#### TEST PROCEDURE

Specimens were clamped into a steel frame and impacted with a 100 Lb. impactor from a drop height of 18 inches. Two specimens were impacted on the film side and two were impacted on the glass side. Specimens were examined for openings and glass loss after impact in accordance with the interpretation of results per the referenced standards.

### SECTION 9

#### TEST SPECIMEN DESCRIPTION

**Product:** R 20, 5 mil

**Glazing Type:** Organic Coated Glass

**Glass Type:** Clear Annealed Glass

**Size Classification:** Unlimited (U)

**Glass Manufacturer:** Unknown

**Film/Organic Coating Manufacturer:** Eastman Performance Films, LLC - Fieldale, Virginia

**Film/Organic Coating Brand Name:** R 20

**Film Thicknesses:** 5 mil

**Nominal Glass Thickness:** 1/4"

**Sample Dimensions:** 34" wide x 76" high (Impact)

#### Glazing Composition Details

THICKNESS (in.)			Method of Film Measurement: The overall glazing thickness was measured, then the film was separated and removed and the glass thickness, exclusive of the film, was measured. The film thickness was calculated by subtracting the measured glass thickness from the measured overall thickness.
Overall	Glass	Film	
0.230	0.225	0.005	

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### SECTION 10

#### TEST RESULTS

Test Date: 06/04/19

Lab Temperature: 70°F

Impact Drop Height: 18 inches

SPECIMEN NUMBER	THICKNESS (IN.)	IMPACT SIDE (G / F) <sup>1</sup>	OBSERVATIONS	LARGEST FRAGMENT	TOTAL FRAGMENTS	PASS /FAIL
1	0.230	F	No openings	N/A	N/A	Pass
2	0.231	G	1/8" x 3-3/8" opening	N/A	N/A	Pass
3	0.230	F	No openings	N/A	N/A	Pass
4	0.232	G	1/4" x 8" opening	N/A	N/A	Pass

<sup>1</sup> Impact Side: G = Glass Side Impacted F = Film/Organic Coated Side Impacted

#### Acceptance Criterion:

No detached fragments over 1 in<sup>2</sup>.

No single detached particle shall weigh more than 6.82 in<sup>2</sup>.

Total weight of detached particles >1 in<sup>2</sup> shall not weigh more than 15.5 in<sup>2</sup>.

No shear or opening through which a 3" sphere can freely pass with 4 lbs. force.

#### Limit

8.86 grams

60.42 grams

137.31 grams

**Note 1:** Acceptance criteria limits were calculated using the nominal glass thickness identified in the 'Glazing Composition Details' section.

**Note 2:** The 'Limit' presented for each item in the 'Impact Test Acceptance Criteria' identifies the allowable weight of the particle/fragment size for the specified item in the 'Criterion' section.

### SECTION 11

#### CONCLUSION

The specimens meet the impact performance requirements set forth in the referenced test procedures.

### SECTION 12

#### REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	06/28/19	N/A	Original Report Issue