

EASTMAN PERFORMANCE FILMS, LLC TEST REPORT

SCOPE OF WORK

SAFETY GLAZING MATERIAL TESTING OF LLUMAR SCL SR PS7 ON 1/4" GLASS

REPORT NUMBER

J3092.13-119-37

TEST DATE

01/23/19

ISSUE DATE

03/19/19

RECORD RETENTION END DATE

01/23/23

PAGES

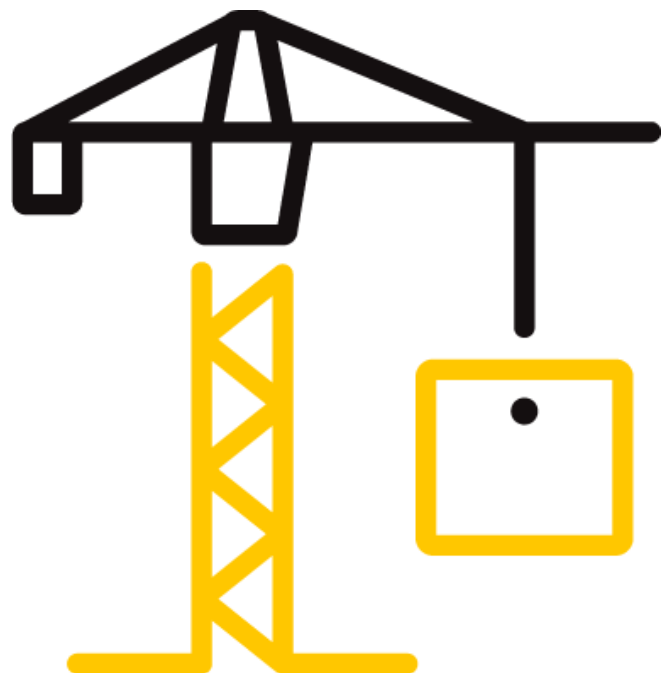
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TEST REPORT FOR EASTMAN PERFORMANCE FILMS, LLC

Report No.: J3092.02-119-37

Date: 03/19/19

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 on their LLumar SCL SR PS7 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: LLumar SCL SR PS7

Glass: 1/4" annealed glass

Glazing Type: Organic Coated Glass

IMPACT TEST RESULTS			
STANDARD	CLASSIFICATION	DROP HEIGHT	RESULT ¹
ANSI	Class A	48 in. (1219 mm)	Pass
CPSC	Category II	48 in. (1219 mm)	Pass

¹The 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. This test qualifies the product for interior use only.

For INTERTEK B&C:

COMPLETED BY:	Todd M. Wilt	REVIEWED BY:	Virgal T. Mickley, Jr., P.E.
TITLE:	Lead Technician	TITLE:	Senior Staff Engineer
SIGNATURE:		SIGNATURE:	
DATE:	03/19/19	DATE:	03/19/19

TMW:vtm/aas

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TEST REPORT FOR EASTMAN PERFORMANCE FILMS, LLC

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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

Clear, annealed glass lites with LLumar SCL SR PS7 Film were delivered to Intertek from Eastman Performance Films, LLC - Fieldale, Virginia on 01/16/19. 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

TEST REPORT FOR EASTMAN PERFORMANCE FILMS, LLC

Report No.: J3092.02-119-37

Date: 03/19/19

SECTION 7

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Todd M. Wilt	Intertek B&C
Isaiah W. Gebhart	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 48 inches from the center of the impactor to the centerline of the test specimen. 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: LLumar SCL SR PS7 on 1/4" Glass

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

Film/Organic Coating Brand Name: LLumar SCL SR PS7

Film Thicknesses: 7 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	
0.239	0.232	0.007	

TEST REPORT FOR EASTMAN PERFORMANCE FILMS, LLC

Report No.: J3092.02-119-37

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SECTION 10

TEST RESULTS

Test Date: 01/23/19

Lab Temperature: 70°F

Impact Drop Height: 48 inches

SPECIMEN NUMBER	THICKNESS (IN.)	IMPACT SIDE (G / F) ¹	OBSERVATIONS	LARGEST FRAGMENT (grams)	TOTAL FRAGMENTS (grams)	PASS/ FAIL
1	0.239	F	No openings	32.1	87.5	Pass
2	0.240	F	No openings	N/A	N/A	Pass
3	0.239	G	No openings	29.8	29.8	Pass
4	0.240	G	No openings	N/A	N/A	Pass

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

Acceptance Criterion:

No detached fragments over 1 in².

No single detached particle shall weigh more than 6.82 in².

Total weight of detached particles >1 in² shall not weigh more than 15.5 in².

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

Limit

9.13 grams

62.30 grams

141.58 grams

Note 1: Acceptance criteria limits were calculated using the 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.



Total Quality. Assured.

130 Derry Court
York, Pennsylvania 17406

Telephone: 717-764-7700
Facsimile: 717-764-4129
www.intertek.com/building

TEST REPORT FOR EASTMAN PERFORMANCE FILMS, LLC

Report No.: J3092.02-119-37

Date: 03/19/19

SECTION 12

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	03/19/19	N/A	Original Report Issue