

EASTMAN PERFORMANCE FILMS, LLC TEST REPORT

SCOPE OF WORK

ASTM D3330 180° PEEL ADHESION EVALUATION OF LLUMAR SCL SR PS4 FILM

REPORT NUMBER

H7867.07-106-31 R0

TEST DATES

12/21/17 - 02/19/18

ISSUE DATE

05/22/18

RECORD RETENTION END DATE

02/19/22

PAGES

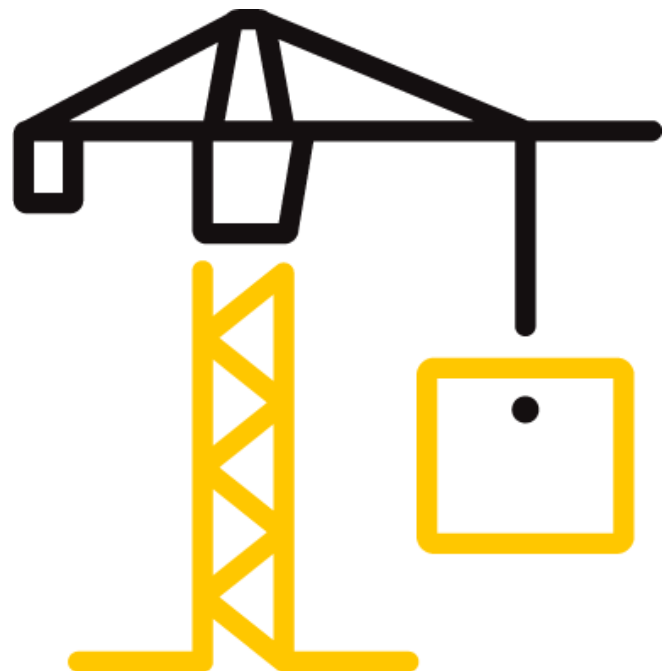
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DOCUMENT CONTROL NUMBER

ATI 00231 (09/05/17)

RT-R-AMER-Test-2827

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TEST REPORT FOR EASTMAN PERFORMANCE FILMS, LLC

Report No.: H7867.07-106-31 R0

Date: 05/22/18

REPORT ISSUED TO

EASTMAN PERFORMANCE FILMS, LLC

4210 The Great Road

Fieldale, VA 24089

SECTION 1

SCOPE

Product: LLumar SCL SR PS4

Intertek Building & Construction (B&C) was contracted by Eastman Performance Films, LLC to evaluate their LLumar SCL SR PS4 in accordance with ASTM D3330 for peel adhesion. 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.

For INTERTEK B&C:

COMPLETED BY:	Andrew D. Cook
TITLE:	Technician II Materials Laboratory
SIGNATURE:	
DATE:	05/22/18

ADC:jmb/jlp

REVIEWED BY:	Joseph M. Brickner
TITLE:	Laboratory Supervisor Materials Laboratory
SIGNATURE:	
DATE:	05/22/18

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SECTION 2

TEST METHOD

The specimens were evaluated in accordance with the following:

ASTM D3330/D3330M-04 (Reapproved 2010), *Standard Test Method for Peel Adhesion of Pressure-Sensitive Tape, Method A*

SECTION 3

MATERIAL SOURCE

The materials were delivered by a representative of Eastman Performance Films, LLC on November 14, 2017. Refer to the product description photos in Section 10. The material was tested as received with the exception of cutting the smaller test specimens from the materials. Representative test specimens will be retained by Intertek B&C for a minimum of four years from the test completion date.

SECTION 4

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Andrew D. Cook	Intertek B&C
Joseph M. Brickner	Intertek B&C

SECTION 5

TEST PROCEDURES

All conditioning of test specimens and test conditions were at the standard laboratory conditions of 73.4°F ±3.6°F and 50% ±10% relative humidity unless otherwise reported. The protective film was removed from all specimens prior to testing. Refer to the test related photos in Section 10.

ASTM D3330 Peel Adhesion – Method A (180° Peel)

Specimens were prepared on a glass substrate by a representative of Eastman Chemical Company prior to receipt of materials on November 14, 2017. Specimens were tested on an Instron 3369 Universal Test Machine (ICN: 005740) operating with a 2kN load cell (ICN: 005742) at a crosshead speed of 12 in/min. The specimens were placed into a fixture, and the free end of the tape was placed into grips. The film was peeled at a 180° angle from the glass substrate for 3" of tape length. Testing was performed on December 21, 2017.

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TEST SPECIMEN DESCRIPTIONS

TEST PROCEDURE	NUMBER OF SPECIMENS	NOMINAL SPECIMEN DIMENSIONS	VISUAL CHARACTERISTICS
ASTM D3330 Method A	5	2" x 6" panels, with 1" wide strips of film	Clear Film

SECTION 7

TEST RESULTS

ASTM D3330 - Peel Adhesion, Method A - 180°

SPECIMEN NO.	WIDTH (in)	AVERAGE PEEL STRENGTH (lb _f /in)	AVERAGE PEEL STRENGTH (oz./in)
1	1.000	3.15	50.5
2	0.996	3.82	61.2
3	1.048	3.04	48.7
4	1.029	3.48	55.7
5	0.992	3.30	52.8
Average		3.36	53.8
Std. Dev.		0.31	4.89
CoV (%)		9.2	9.1

SECTION 8

CONCLUSION

ASTM D3330 does not contain specific performance criteria.

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SECTION 9 PHOTOGRAPHS

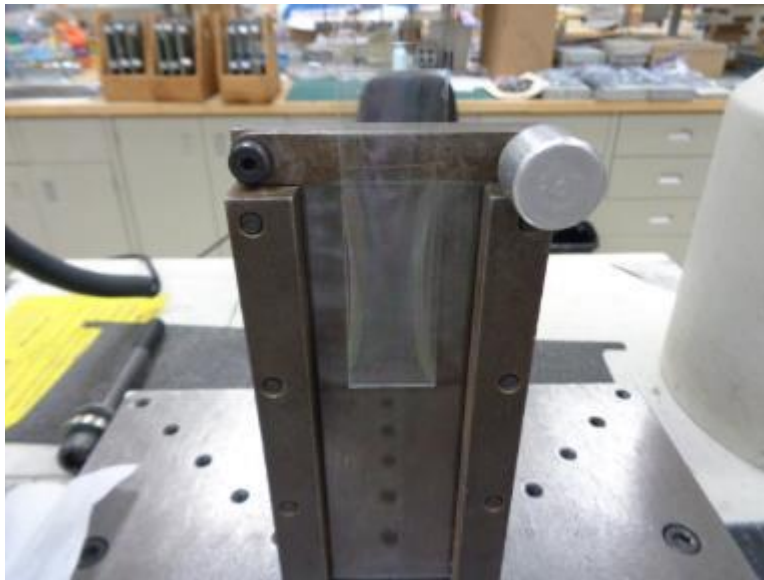


Photo No. 1
ASTM D3330 - 180° Peel Test Specimen during Testing

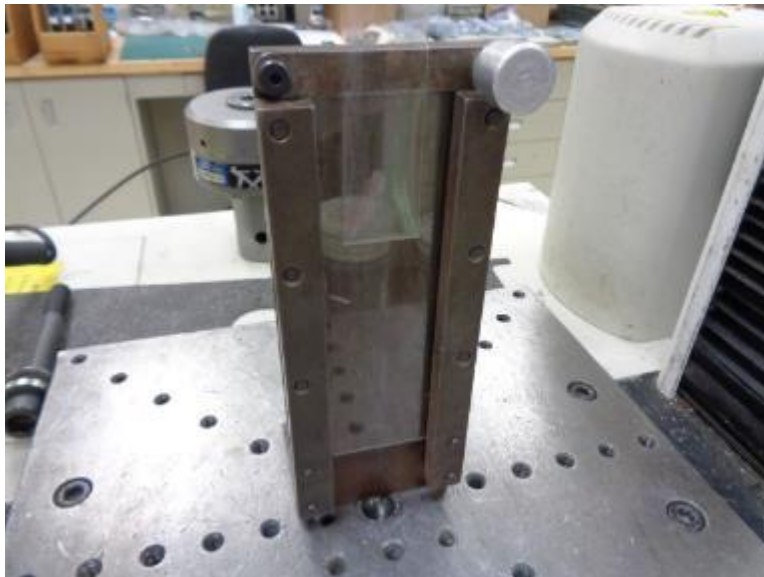


Photo No. 2
ASTM D3330 - 180° Peel Test Specimen during Testing



Total Quality. Assured.

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SECTION 10

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	05/22/18	N/A	Original Report Issue