



PRI Construction Materials Technologies LLC

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Laboratory Test Report

Report for: Polyguard Products Inc.
1901 S US Hwy 287
Corsicana, TX 75110

Product Name: WS20 WindowSeal® 20 Mil - Window and Door Flashing

Project No.: 681T0001.01

Dates Tested: Dec. 8th, 2020 – Jan. 5th, 2021

Test Methods: AAMA 711

Results Summary: Passed Minimum Performance Criteria for Type A Level 3

Purpose: Evaluate the performance properties of Polyguard Products WS20 WindowSeal® 20 Mil - Window and Door Flashing Tape in accordance with AAMA 711 *Voluntary Specification for Self-Adhering Flashing Used for Installation of Exterior Wall Fenestration Products.*

Test Methods: Testing was completed as described in AAMA 711-20 Voluntary Specification for Self-Adhering Flashing Used for Installation of Exterior Wall Fenestration Products. Test methods assigned or referenced include AAMA 800 Voluntary Specification and Test Methods for Sealants, ASTM C734 Standard Test Method for Low Temperature Flexibility of Latex Sealants After Artificial Weathering, ASTM C765 Standard Test Method for Low-Temperature Flexibility of Preformed Tape Sealants, ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers – Tension, ASTM D1970/D1970M Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection, ASTM D3330/D3330M Standard Test Method for Peel Adhesion of Pressure-Sensitive Tape, ASTM D5034 Standard Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test), and ASTM G154 Standard Practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Nonmetallic Materials.

Sampling: The following materials products were virtually sampled by PRI on Nov. 30th, 2020 as stated on PRI sampling report 681I0001 dated 01/29/21. The sampling form is contained in Appendix A. All other materials for testing were procured thru local distribution.

| <u>Product</u> | <u>Source</u> | <u>Date Received</u> | <u>Sampling</u> |
|---|---------------|-----------------------------|-----------------|
| WS20 WindowSeal® 20 Mil - Window and Door Flashing (1) Unopened | Corsicana, TX | Dec. 4 th , 2020 | PRI-CMT |

Testing Location: Testing was conducted at PRI-CMT located in Tampa, FL. Calibration of testing instrumentation was performed by either an ISO accredited calibration laboratory or by a PRI-CMT representative in compliance with PRI-CMT In-House quality control program governed by ISO/IEC 17025-17.

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Test Results: Conditions at beginning of testing 22°C (73°F) with 50% Rh.

TABLE 1: AAMA 711

| Property | Test Method | Result | Requirement | |
|--|---------------------------|---|---|-------|
| Performance Requirements | | | | |
| AAMA 711 Section 5.1 Tensile Strength (psi) 5 specimens; 1" x 6"; Conditioned 2h @ 73.4±3.6°F Test @ 73.4±3.6°F; Rate = 2in/min ±3% | ASTM D1970 Section 7.3 | | | |
| | MD | 414 | ≥ 143 | |
| | CMD | 459 | ≥ 143 | |
| AAMA 711 Section 5.2 Water Penetration Resistance Around Fasteners [Pass/Fail] 5 specimens; 4" x 4" (bonded to plywood); One 1-1/4" roofing nail & One #8 x 1-1/4" screw, driven through 1/8" pvc shims placed near center of specimen. Cond. 24h @ ambient; Test 1.2inw.c. @ 40±5°F for 24h; Visual Inspection for water infiltration | AAMA 711 Section 5.2.1 | | | |
| | As Received | Pass | No water present in bottom can, on the underside of the substrate, or on the shank of the fastener. | |
| | Thermal Cycling | Pass | | |
| AAMA 711 Section 5.3 Peel Adhesion to Substrates (lb _f /in) 5 specimens; 1" x 12"; Condition 24h @ 73.4±3.6°F and 50±5%RH; Test @ 73.4±3.6°F; Rate = 12±0.5 in/min | ASTM D3330 Method F | | | |
| | | OSB (PS-2 Exposure 1 Smooth Side out) | 3.1 | ≥ 1.5 |
| | | Anodized Aluminum (AA M12C22A41) | 6.4 | ≥ 1.5 |
| | | Vinyl | 4.9 | ≥ 1.5 |
| | | Plywood (PS-1 Grade Exposure 1) | 4.5 | ≥ 1.5 |
| | | Product applied to its face | 6.2 | ≥ 1.5 |
| | | AAMA 711 Section 5.4 Accelerated Aging (lb _f /in) 3 specimens; 1" x 12" Anodized aluminum substrate (AA M12C22A41); Condition vertically 24h @ 73.4±3.6°F Condition ASTM G154 UVA Cycle 1; Test @ 73.4±3.6°F; Rate = 12±0.5 in/min | ASTM D3330 Method F | 6.0 |
| | Visual (Pass/Fail) | Pass | No change in appearance | |
| AAMA 711 Section 5.5 Elevated Temperature (lb _f /in) 3 specimens; 1" x 12"; Anodized aluminum substrate (AA M12C22A41); Condition vertically 24h @ 73.4±3.6°F Exposed vertically to Level 3, 176±2°F for 7d Condition vertically 24h @ 73.4±3.6°F Test @ 73.4±3.6°F; Rate = 12±0.5 in/min | ASTM D3330 Method F | 6.1 | ≥ 1.5 | |
| | Visual (Pass/Fail) | Pass | No change in appearance | |

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| Property | Test Method | Result | Requirement |
|--|------------------------|--------|--|
| AAMA 711 Section 5.6 Thermal Cycling (lb _f /in) 3 specimens; 1" x 12"; Anodized aluminum substrate (AA M12C22A41); Conditioned vertically 24h @73.4±3.6°F; 10 cycles; 8h @ 120±2°F followed by 16h@ -40±2°F; Conditioned vertically 24h @73.4±3.6°F; Test @ 73.4±3.6°F; Rate = 12±0.5 in/min | ASTM D3330 Method F | 6.6 | ≥ 1.5 |
| | Visual (Pass/Fail) | Pass | No change in appearance |
| AAMA 711 Section 5.7 Cold Temperature Pliability (Pass/Fail) 5 specimens; 1" x 4"; Conditioned 14d @158±3.6°F; Conditioned 4h @ 0±3.6°F; Test 180±5° over 1" ±5% ∅ in 2±1s @ 0±3.6; Visual inspection in the flexed position | ASTM C765 | Pass | No change in appearance |
| AAMA 711 Section 5.8 Peel Adhesion after immersion (lb _f /in) 5 specimens; 1" x 16"; Condition 24h @ 73.4±3.6°F and 50±10%RH; Test ½ of applied bond length followed by; Immersion in tap water for 7d @ 73.4±3.6°F; Test remainder of bond length; Test @ 73.4±3.6°F; Rate = 12±0.5 in/min | ASTM D3330 Method F | | |
| | Pre-immersion | 6.4 | ≥ 1.5 |
| | Post immersion | 6.2 | ≥ 1.5 |
| AAMA 711 Section 5.9 Resistance to Peel (Pass/Fail) 2 specimens; 6" x 14"; Adhered to marked side of OSB substrate Exposed vertically to Level 3, 176±2°F for 24h; Conditioned 24h @ 73.4±3.6°F & 50±5%RH; Visual Inspection | AAMA 711 Annex A | Pass | Specimen shall not have edge curl > ½" nor corner cut > ½ the width of the flashing |

Note(s): None

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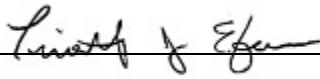
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Statement of Attestation:

The performance of these materials was determined in accordance with AAMA 711-20: **Voluntary Specification for Self-Adhering Flashing Used for Installation of Exterior Wall Fenestration Products**. Upon completion of testing the specimens supplied met the minimum performance criteria outlined for a Type A Level 3 as specified in AAMA 711-20 for the following substrates, OSB, anodized aluminum, vinyl, plywood, and the products own facer. The laboratory test results presented in this report are representative of the material supplied. This report does not constitute certification of this product which may only be granted by the certification program administrator.

Signed: _____



Timothy Efaw
Manager

Signed: _____



Anthony Catlett
Technician

Date: _____ February 5th, 2021

Date: _____ February 5th, 2021

Report Issue History:

| Issue # | Date | Pages | Revision Description (if applicable) |
|------------|------------|-------|--|
| Original | 02/05/2021 | 5 | |
| Revision 1 | 04/18/2023 | All | Changed product name per client request. |

Appendix Follows...

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Appendix A: Sampling Form

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Status: Authorized

Doc No: CS008-2
 CONFIDENTIAL

| | | |
|--|--|---|
| PRI Construction Materials Technologies, LLC. 6412 Badger Drive Tampa, FL 33610 813-621-5777 813-621-5840 (Fax) | Chain of Custody Record - | |
| | Client Name: <i>Polyguard Products Inc</i> |  |
| | Project Number(s): <i>76D</i> | |
| | Client Address: <i>1901 S. US Hwy 287</i> | |
| | Client Contact: <i>Chris Rogalski, Quality Manager</i> | |
| Date of Sampling: <i>11/30/20</i> | | |
| Sampling Inspector (print/sign): <i>Brian Wilson (recede)</i> | | |

| Sampling (To be completed by Inspector prior to relinquishing custody) | | | Receipt Of Materials (To be completed when received) | |
|--|---------------------------|----------|--|--|
| Product Name: | Lot No.: | Qty: | Received By: | Date Rec'd: |
| <i>WindowSeal flashing tape</i> | <i>L3R15(03) 0051</i> | <i>1</i> | <i>Brian Wilson</i> | <i>12/4/20</i> |
| | | | | <i>Product received in warehouse on 11/30/20 to be same as product sampled on 11/30/20</i> |
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| Disposal Authorization (To be completed by individual conducting disposal) | | |
|--|---------|-----------|
| Name | Company | Signature |
| | | |
| | | |

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END OF REPORT

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