



Technical Service Report

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PO#:

Conklin Company, Inc.

Tom Gravenstreter

3951 N.E. Kimball Drive

Kansas City M 64161

Ph: 952-496-4243 Fax: 952-224-5124

Momentum Technologies, inc.
1507 Boettler Rd. Uniontown,
OH 44685 Ph: 330-896-
5900 Fax: 330-896-9943

Abstract: Analysis of one Product (Puma XL System) per ASTM D 6083-05e1 for Dade County approval.

MTI#	Description of Material	Receiving Date
MTI-111238	2 qt PUMA XL #1360-66B Mfg date 10/25/2011	11/14/2011
MTI-111239	2 qt Benchmark Basecoat #1360-66A Mfg date 10/25/2011	11/14/2011
MTI-111240	1 qt Tack Coat Lot# 1R255 Mfg date 9/30/2011	11/14/2011
MTI-111241	1 qt Metal Ready Universal Lot# 1H227 Mfg date 8/9/2011	11/14/2011
MTI-111242	1 qt Prime Time Plus Lot# OK242 Mfg date 10/13/2011	12/13/2011

Test	ASTM	Requirement	Result	Conclusion
Accelerated Weathering 1000 hrs. per ASTM D4798 - Puma XL ONLY	D 6083-05e1	No cracking or checking	No cracking or checking	Pass
Adhesion to 90 lb. Rolled Roofing w/ PRIME TIME PLUS (Benchmark and Puma XL) per ASTM D903/C794	D 6083-05e1	min. 2 pli	2.32 pli	Pass
Adhesion to BUR w/ PRIME TIME PLUS (Benchmark and Puma XL) per ASTM D903/C794	D 6083-05e1	min. 2 pli	5.80 pli	Pass
Adhesion to Concrete (Benchmark and Puma XL) per ASTM D903/C794	D 6083-05e1	min. 2 pli	3.63 pli	Pass
Adhesion to Derbibrigh (Benchmark and Puma XL) per ASTM D903/C794	D 6083-05e1	min. 2 pli	4.28 pli	Pass
Adhesion to EPDM w/ TACK COAT (Benchmark and Puma XL) per ASTM D903/C794	D 6083-05e1	min. 2 pli	2.05 pli	Pass
Adhesion to Factory Coated Steel w/ METAL READY UNIVERSAL (Benchmark and Puma XL) per ASTM D903/C794	D 6083-05e1	min. 2 pli	5.50 pli	Pass

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Test	ASTM	Requirement	Result	Conclusion
Adhesion to Galvanized Metal w/ METAL READY UNIVERSAL (Benchmark and Puma XL) per ASTM D903/C794	D 6083-05e1	min. 2 pli	4.56 pli	Pass
Adhesion to Hypalon w/ TACK COAT (Benchmark and Puma XL) per ASTM D903/C794	D 6083-05e1	min. 2 pli	2.15 pli	Pass
Adhesion to Modified Bitumen per ASTM D903/C794	D 6083-05e1	min. 2 pli	3.50 pli	Pass
Adhesion to PVC w/ TACK COAT (Benchmark and Puma XL) per ASTM D903/C794	D 6083-05e1	min. 2 pli	4.82 pli	Pass
Adhesion to SPF (Benchmark and Puma XL) per ASTM D903/C794	D 6083-05e1	min. 2 pli	4.63 pli	Pass
Adhesion to TPO w/ TACK COAT (Benchmark and Puma XL) per ASTM D903/C794	D 6083-05e1	min. 2 pli	2.07 pli	Pass
Final Percent Elongation (break) @ 23°C (after 1000 hrs Accelerated Weathering) per ASTM D2370	D 6083-05e1	min. 100 %	291.73%	Pass
Fungi Resistance (Puma XL ONLY) per ASTM G21	D 6083-05e1	0 rating	0 rating	Pass
Initial Percent Elongation (break) @ 23°C (Benchmark and Puma XL) per ASTM D2370	D 6083-05e1	min. 100%	404.96%	Pass
Initial Tensile Strength (maximum stress) @ 23°C (Benchmark and Puma XL) per ASTM D2370	D 6083-05e1	min. 200 psi	281.99 psi	Pass
Low Temperature Flexibility @ -26°C (after 1000 hrs Weathering) (Benchmark and Puma XL) per ASTM D522	D 6083-05e1	Pass (around a 0.5 in. mandrel, No Cracking or Breaking)	Pass	Pass
Permeance (water method, inverted) (Benchmark and Puma XL) per ASTM D1653 - Puma XL face down	D 6083-05e1	max. 50 perms	1.82 perms	Pass
Tear Resistance (Benchmark and Puma XL) per ASTM D624	D 6083-05e1	min. 60 lbf/in	102.99 lbf/in	Pass

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Cert. 2711.01

Test	ASTM	Requirement	Result	Conclusion
Viscosity (Brookfield LVT) per ASTM D2196: BENCHMARK	D 6083-05e1	12,000-85,000 cPs	34,366 cPs	Pass
Viscosity (Brookfield LVT) per ASTM D2196: PUMA XL	D 6083-05e1	12,000-85,000 cPs	25,233 cPs	Pass
Viscosity (Stormer) per ASTM D562: BENCHMARK	D 6083-05e1	85-141 KU	106.6 KU	Pass
Viscosity (Stormer) per ASTM D562: PUMA XL	D 6083-05e1	85-141 KU	98.9 KU	Pass
Volume Solids per ASTM D2697: BENCHMARK	D 6083-05e1	Greater than 50%	56.35%	Pass
Volume Solids per ASTM D2697: PUMA XL	D 6083-05e1	Greater than 50%	58.56%	Pass
Water Swelling per ASTM D 471: PUMA XL ONLY	D 6083-05e1	max. 20%	14.81%	Pass
Weight Solids per ASTM D1644: BENCHMARK	D 6083-05e1	Greater than 60%	64.32%	Pass
Weight Solids per ASTM D1644: PUMA XL	D 6083-05e1	Greater than 60%	65.04%	Pass


Conclusion:

Puma XL System meets or exceeds the requirements per ASTM D 6083-05e1 for Dade County approval. Fungi Resistance per ASTM G21 was outsourced to another lab.

Tested By:


Janna Pearson
 Laboratory Technician

Reviewed By


John Warmus
 Florida Professional Engineer
 PE No. 37465

Verified By:


Cindy Campbell
 Laboratory Manager

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