

XEROS HIGH PERFORMANCE WORK WEAR, INC. TEST REPORT

SCOPE OF WORK

Performance Testing of Outershell Material to NFPA 1971 Standard on Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting, 2018 Edition, Modified

REPORT NUMBER

103505017CRT-001

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TEST REPORT FOR XEROS HIGH PERFORMANCE WORK WEAR, INC.

Report No.: 103505017CRT-001 Date Issued: September 6, 2018

MANUFACTURER

Xeros Technology Group 195 Dupont Drive Providence, RI 02907 USA

TEST STANDARD

NFPA 1971 Standard on Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting, 2018 Edition, modified as described in the Test Procedure below

AUTHORIZATION

Proposal Number: Qu-00876874

Date Authorized: April 17, 2018

SAMPLE INFORMATION

Dates Samples Received: May 11, 2018 (Machine) and May 21, 2018 to June 19, 2018 (Fabric

Samples)

Condition of Samples: Production Run

Dates of Testing: June 7, 2018 to July 30, 2018

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SECTION 1

TEST PROCEDURE

Performance testing of Structural Fire Fighting clothing was conducted in accordance with the below test methods of NFPA 1971 *Standard on Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting*, 2018 Edition, after various laundering conditions.

Testing was done on outershell material, thermal liners, moisture barriers, moisture barrier seams, and reflective trim as outlined below. The number of specimens tested for each condition was in accordance with the annual recertification requirements of NFPA 1971-18 Section 4.4.2(3) and 4.4.2(4).

Two different laundering systems as detailed below were used, each having a sample set taken after 10, 30, and 50 cycles. In accordance with NFPA 1851 Standard on Selection, Care, and Maintenance of Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting, 2014 Edition, the outershell and reflective trim samples were laundered separately from the thermal liner and moisture barrier samples. In order to create a full laundry load, retired structural firefighting garments were used as ballast material, outershells being separated from thermal liners and thermal liners being turned inside out. In order to maintain the same load size as samples were removed after 10 and 30 cycles, their mass was replaced in the laundry load with 7.5 oz/yd² woven 93 percent meta-aramid, 5 percent para-aramid, 2 percent antistat fiber ballast.

Laundered samples were 15 inch square fabric swatches for outershells, and thermal liners; samples for moisture barrier and moisture barrier seams were 15 inch composites of moisture barriers sewn to thermal liners; samples for reflective trim were 12 inch lengths of trim sewn to 15 inch outershell swatches.

| OUTERSHELL TESTING | | |
|------------------------------------|-------------------------------|--|
| SECTION TEST | | |
| 7.1.3 | Flame Resistance 1 | |
| 7.1.11 | Tear Resistance | |
| 7.1.18 Water Absorption Resistance | | |
| 7.2.4 | Cleaning Shrinkage Resistance | |
| 7.2.5 | Breaking Strength | |

| MOISTURE BARRIER TESTING* | | |
|--|--|--|
| SECTION TEST | | |
| 7.1.12 | Tear Resistance | |
| 7.1.14 Water Penetration Resistance | | |
| 7.1.15 | Liquid Penetration Resistance ¹ | |
| 7.1.16 Viral Penetration Resistance ¹ | | |

¹Moisture Barrier Seam Testing

| THERMAL LINER TESTING** | | | |
|-------------------------|--------------------------|--|--|
| SECTION TEST | | | |
| 7.1.3 | 7.1.3 Flame Resistance 1 | | |
| 7.1.12 | 7.1.12 Tear Resistance | | |

| REFLECTIVE TRIM TESTING*** | | |
|----------------------------|------------------------------------|--|
| SECTION TEST | | |
| 7.2.3 | Retroreflectivity and Fluorescence | |

^{*}Moisture Barrier Testing reflected in Intertek Test Report 103505017CRT-002

^{**}Thermal Liner Testing reflected in Intertek Test Report 103505017CRT-003

^{***}Reflective Trim Testing reflected in Intertek Test Report 103505017CRT-004

SAMPLE INFORMATION

Outershell: PBI Max 7.0 oz/yd² with Teflon FPPE (Black and Tan)

Omni Vantage (Dark Brown and Light Brown)

Thermal Liner: Defender ™ M SL2

Moisture Barrier: Steadair 3000

Crosstech Black 2F

Reflective Trim: 3 inch Triple Trim Orange with Trim Trax

3 inch Perforated Diamond Triple Trim

LAUNDERING SYSTEMS

XEROS LAUNDERING SYSTEM

Machine: XEROS Model XGQ50FWL-60-215H

Detergent: XEROS, INC Pack-1 Laundry Detergent

Additive: 100% Corn Oil* *50mL of corn oil used as foam suppression

XEROS OUTERSHELL LAUNDERING PROGRAM

| STEP# | DESCRIPTION | Detergent/Additives |
|-------|--------------------------------|----------------------------------|
| 1 | Prepare water/detergent | 150 mL detergent, 50 mL corn oil |
| 2 | Spray in | |
| 3 | Prepare extra wash water | |
| 4 | Spray in | |
| 5 | Top-up water, start beads | |
| 6 | First wash | |
| 7 | Drain, prepare water/detergent | 100 mL detergent |
| 8 | Second wash | |
| 9 | Drain, prepare rinse water | |
| 10 | Spray in | |
| 11 | Drain, prepare rinse water | |
| 12 | Spray in | |
| 13 | Extract, prepare rinse water | |
| 14 | Spray in | |
| 15 | Prepare rinse water | |
| 16 | Spray in | |
| 17 | Extract | |
| 18 | Remove beads | |

Water from cold inlet only

XEROS LINER SYSTEMS LAUNDERING PROGRAM

| STEP# | DESCRIPTION | Detergent/Additives |
|-------|--------------------------------|----------------------------------|
| 1 | Prepare water/detergent | 150 mL detergent, 50 mL corn oil |
| 2 | Spray in | |
| 3 | Prepare extra wash water | |
| 4 | Spray in | |
| 5 | Top-up water, start beads | |
| 6 | First wash | |
| 7 | Drain, prepare water/detergent | 100 mL detergent |
| 8 | Second wash | |
| 9 | Drain, prepare rinse water | |
| 10 | Spray in | |
| 11 | Drain, prepare rinse water | |
| 12 | Spray in | |
| 13 | Extract, prepare rinse water | |
| 14 | Spray in | |
| 15 | Prepare rinse water | |
| 16 | Spray in | |
| 17 | Extract | |
| 18 | Remove beads | |

Water from cold inlet only

MILNOR LAUNDERING SYSTEM

Machine: Milnor Model 30022V6J

Detergent: Citrosqueeze® Personal Protective Clothing & Turnout Gear Cleaner

Additive: 100% Corn Oil* *30mL of corn oil used as foam suppression

MILNOR LAUNDERING PROGRAM

| STEP# | DESCRIPTION | Detergent/Additives |
|-------|-------------------------------|----------------------------------|
| 1 | Water Fill (40°C) / Detergent | 177 mL detergent, 30 mL corn oil |
| 2 | Wash cycle (15 min) | |
| 3 | Drain (1 min) | |
| 4 | Low Spin (1 min) | |
| 5 | Water Fill (21°C) | |
| 6 | Rinse (5 min) | |
| 7 | Drain (1 min) | |
| 8 | Low Spin (1 min) | |
| 9 | Water Fill (21°C) | |
| 10 | Rinse (5 min) | |
| 11 | Drain (1 min) | |
| 12 | Low Spin (1 min) | |
| 13 | Water Fill (21°C) | |
| 14 | Rinse (6 min) | |
| 15 | Drain (1 min) | |
| 16 | Low Spin (4 min) | |

SECTION 2

CONCLUSION

This test report completes the testing covered by Proposal No. Qu-00876874.

If there are any questions regarding the results contained in this report, or any of the other services offered by Intertek, please do not hesitate to contact the undersigned.

Please note: this Test Report does not represent authorization for the use of any Intertek certification marks.

Project Project Owner: Benjamin Hanna **Reviewer:** Jason Allen Title: Title: Engineer **Technical Advisor** Ben Ken Signature: **Signature** September 6, 2018 September 7, 2018 Date Date:

Date: September 6, 2018

SECTION 3

NFPA 1971-2018 OUTERSHELL TEST DATA SHEETS

SECTION 7.1.3

FLAME RESISTANCE TEST 1

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Tan) **TEST METHOD:** In accordance with Section 7.1.3 and Section 8.2

CONDITIONING: In accordance with Section 8.1.3

TEAR WEIGHT: 200 g

MACHINE DIRECTION

| SPECIMEN | AFTERFLAME (sec) | AFTER GLOW (sec) | CHAR LENGTH (mm) | DRIP/MELT (Yes/No) |
|----------|------------------|------------------|------------------|-----------------------|
| 1 | 0.0 | 6.9 | 11 | No |
| 2 | 0.0 | 9.4 | 11 | No |
| AVG. | 0.0 | 8.2 | 11 | |

CROSS MACHINE DIRECTION

| SPECIMEN | AFTERFLAME (sec) | AFTER GLOW (sec) | CHAR LENGTH (mm) | DRIP/MELT (Yes/No) |
|----------|------------------|------------------|------------------|-----------------------|
| 1 | 0.0 | 7.3 | 11 | No |
| 2 | 0.0 | 6.9 | 12 | No |
| AVG. | 0.0 | 7.1 | 12 | |

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Tan) **TEST METHOD:** In accordance with Section 7.1.3 and Section 8.2

CONDITIONING: Xeros outershell laundering 10 cycles, and in accordance with Section 8.1.3

TEAR WEIGHT: 200 g

MACHINE DIRECTION

| SPECIMEN | AFTERFLAME (sec) | AFTER GLOW (sec) | CHAR LENGTH (mm) | DRIP/MELT (Yes/No) | |
|----------|------------------|------------------|------------------|-----------------------|--|
| 1 | 0.0 | 19.5 | 10 | No | |
| 2 | 0.0 | 16.9 | 9 | No | |
| AVG. | 0.0 | 18.2 | 10 | | |

| SPECIMEN | AFTERFLAME (sec) | AFTER GLOW (sec) | CHAR LENGTH (mm) | DRIP/MELT (Yes/No) | |
|----------|------------------|------------------|------------------|-----------------------|--|
| 1 | 0.0 | 19.0 | 10 | No | |
| 2 | 0.0 | 17.2 | 10 | No | |
| AVG. | 0.0 | 18.1 | 10 | | |

Date: September 6, 2018

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Tan) **TEST METHOD:** In accordance with Section 7.1.3 and Section 8.2

CONDITIONING: Xeros outershell laundering 30 cycles, and in accordance with Section 8.1.3

TEAR WEIGHT: 200 g

MACHINE DIRECTION

| SPECIMEN | AFTERFLAME (sec) | AFTER GLOW (sec) | CHAR LENGTH (mm) | DRIP/MELT (Yes/No) |
|----------|------------------|------------------|------------------|-----------------------|
| 1 | 0.0 | 17.4 | 11 | No |
| 2 | 0.0 | 19.9 | 10 | No |
| AVG. | 0.0 | 18.7 | 11 | |

CROSS MACHINE DIRECTION

| SPECIMEN | AFTERFLAME (sec) | AFTER GLOW (sec) | CHAR LENGTH (mm) | DRIP/MELT (Yes/No) |
|----------|------------------|------------------|------------------|-----------------------|
| 1 | 0.0 | 22.7 | 11 | No |
| 2 | 0.0 | 18.8 | 11 | No |
| AVG. | 0.0 | 20.8 | 11 | |

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Tan) **TEST METHOD:** In accordance with Section 7.1.3 and Section 8.2

CONDITIONING: Xeros outershell laundering 50 cycles, and in accordance with Section 8.1.3

TEAR WEIGHT: 200 g

MACHINE DIRECTION

| SPECIMEN | AFTERFLAME (sec) | AFTER GLOW (sec) | CHAR LENGTH (mm) | DRIP/MELT (Yes/No) |
|----------|------------------|------------------|------------------|-----------------------|
| 1 | 0.0 | 23.4 | 12 | No |
| 2 | 0.0 | 21.4 | 8 | No |
| AVG. | 0.0 | 22.4 | 10 | |

| SPECIMEN | AFTERFLAME (sec) | AFTER GLOW (sec) | CHAR LENGTH (mm) | DRIP/MELT (Yes/No) |
|----------|------------------|------------------|------------------|-----------------------|
| 1 | 0.0 | 21.8 | 14 | No |
| 2 | 0.0 | 24.4 | 13 | No |
| AVG. | 0.0 | 23.1 | 14 | |

Date: September 6, 2018

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Tan) **TEST METHOD:** In accordance with Section 7.1.3 and Section 8.2

CONDITIONING: Milnor outershell laundering 10 cycles, and in accordance with Section 8.1.3

TEAR WEIGHT: 200 g

MACHINE DIRECTION

| SPECIMEN | AFTERFLAME (sec) | AFTER GLOW (sec) | CHAR LENGTH (mm) | DRIP/MELT (Yes/No) |
|----------|------------------|------------------|------------------|-----------------------|
| 1 | 0.0 | 16.2 | 9 | No |
| 2 | 0.0 | 15.5 | 10 | No |
| AVG. | 0.0 | 15.9 | 10 | |

CROSS MACHINE DIRECTION

| SPECIMEN | AFTERFLAME (sec) | AFTER GLOW (sec) | CHAR LENGTH (mm) | DRIP/MELT (Yes/No) |
|----------|------------------|------------------|------------------|-----------------------|
| 1 | 0.0 | 16.2 | 10 | No |
| 2 | 0.0 | 17.4 | 11 | No |
| AVG. | 0.0 | 16.8 | 11 | |

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Black) **TEST METHOD:** In accordance with Section 7.1.3 and Section 8.2

CONDITIONING: Milnor outershell laundering 30 cycles, and in accordance with Section 8.1.3

TEAR WEIGHT: 200 g

MACHINE DIRECTION

| SPECIMEN | AFTERFLAME (sec) | AFTER GLOW (sec) | CHAR LENGTH (mm) | DRIP/MELT (Yes/No) |
|----------|------------------|------------------|------------------|-----------------------|
| 1 | 0.0 | 22.4 | 10 | No |
| 2 | 0.0 | 25.3 | 10 | No |
| AVG. | 0.0 | 23.9 | 10 | |

| SPECIMEN | AFTERFLAME (sec) | AFTER GLOW (sec) | CHAR LENGTH (mm) | DRIP/MELT (Yes/No) |
|----------|------------------|------------------|------------------|-----------------------|
| 1 | 0.0 | 29.1 | 10 | No |
| 2 | 0.0 | 27.7 | 11 | No |
| AVG. | 0.0 | 28.4 | 11 | |

Date: September 6, 2018

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Black) **TEST METHOD:** In accordance with Section 7.1.3 and Section 8.2

CONDITIONING: Milnor outershell laundering 50 cycles, and in accordance with Section 8.1.3

TEAR WEIGHT: 200 g

MACHINE DIRECTION

| SPECIMEN | AFTERFLAME (sec) | AFTER GLOW (sec) | CHAR LENGTH (mm) | DRIP/MELT (Yes/No) |
|----------|------------------|------------------|------------------|-----------------------|
| 1 | 0.0 | 24.3 | 10 | No |
| 2 | 0.0 | 26.9 | 11 | No |
| AVG. | 0.0 | 25.6 | 11 | |

| SPECIMEN | AFTERFLAME (sec) | AFTER GLOW (sec) | CHAR LENGTH (mm) | DRIP/MELT (Yes/No) |
|----------|------------------|------------------|------------------|-----------------------|
| 1 | 0.0 | 29.3 | 11 | No |
| 2 | 0.0 | 27.5 | 11 | No |
| AVG. | 0.0 | 28.4 | 11 | |

Date: September 6, 2018

SECTION 7.1.3

FLAME RESISTANCE TEST 1

PRODUCT DESCRIPTION: Omni Vantage (Light Brown)

TEST METHOD: In accordance with Section 7.1.3 and Section 8.2

CONDITIONING: In accordance with Section 8.1.3

TEAR WEIGHT: 200 g

MACHINE DIRECTION

| SPECIMEN | AFTERFLAME (sec) | AFTER GLOW (sec) | CHAR LENGTH (mm) | DRIP/MELT (Yes/No) |
|----------|------------------|------------------|------------------|-----------------------|
| 1 | 0.0 | 2.6 | 40 | No |
| 2 | 0.0 | 1.9 | 40 | No |
| AVG. | 0.0 | 2.3 | 40 | |

CROSS MACHINE DIRECTION

| SPECIMEN | AFTERFLAME (sec) | AFTER GLOW (sec) | CHAR LENGTH (mm) | DRIP/MELT (Yes/No) |
|----------|------------------|------------------|------------------|-----------------------|
| 1 | 0.0 | 0.3 | 30 | No |
| 2 | 0.0 | 3.1 | 40 | No |
| AVG. | 0.0 | 1.7 | 35 | |

PRODUCT DESCRIPTION: Omni Vantage (Dark Brown)

TEST METHOD: In accordance with Section 7.1.3 and Section 8.2

CONDITIONING: In accordance with Section 8.1.3

TEAR WEIGHT: 200 g

MACHINE DIRECTION

| MACHINE DIRECTION | | | | | |
|-------------------|------------------|------------------|------------------|-----------------------|--|
| SPECIMEN | AFTERFLAME (sec) | AFTER GLOW (sec) | CHAR LENGTH (mm) | DRIP/MELT (Yes/No) | |
| 1 | 0.0 | 22.1 | 56 | No | |
| 2 | 0.0 | 29.8 | 61 | No | |
| AVG. | 0.0 | 26.0 | 59 | | |

| SPECIMEN | AFTERFLAME (sec) | AFTER GLOW (sec) | CHAR LENGTH (mm) | DRIP/MELT (Yes/No) |
|----------|------------------|------------------|------------------|-----------------------|
| 1 | 0.0 | 25.5 | 53 | No |
| 2 | 0.0 | 29.0 | 50 | No |
| AVG. | 0.0 | 27.3 | 52 | |

Date: September 6, 2018

PRODUCT DESCRIPTION: Omni Vantage (Dark Brown)

TEST METHOD: In accordance with Section 7.1.3 and Section 8.2

CONDITIONING: Xeros outershell laundering 10 cycles, and in accordance with Section 8.1.3

TEAR WEIGHT: 200 g

MACHINE DIRECTION

| SPECIMEN | AFTERFLAME (sec) | AFTER GLOW (sec) | CHAR LENGTH (mm) | DRIP/MELT (Yes/No) |
|----------|------------------|------------------|------------------|-----------------------|
| 1 | 0.0 | 17.8 | 52 | No |
| 2 | 0.0 | 16.6 | 55 | No |
| AVG. | 0.0 | 17.2 | 54 | |

CROSS MACHINE DIRECTION

| SPECIMEN | AFTERFLAME (sec) | AFTER GLOW (sec) | CHAR LENGTH (mm) | DRIP/MELT (Yes/No) |
|----------|------------------|------------------|------------------|-----------------------|
| 1 | 0.0 | 15.6 | 58 | No |
| 2 | 0.0 | 19.6 | 50 | No |
| AVG. | 0.0 | 17.6 | 54 | |

PRODUCT DESCRIPTION: Omni Vantage (Dark Brown)

TEST METHOD: In accordance with Section 7.1.3 and Section 8.2

CONDITIONING: Xeros outershell laundering 30 cycles, and in accordance with Section 8.1.3

TEAR WEIGHT: 200 g

MACHINE DIRECTION

| SPECIMEN | AFTERFLAME (sec) | AFTER GLOW (sec) | CHAR LENGTH (mm) | DRIP/MELT (Yes/No) |
|----------|------------------|------------------|------------------|-----------------------|
| 1 | 0.0 | 20.5 | 65 | No |
| 2 | 0.0 | 26.1 | 56 | No |
| AVG. | 0.0 | 23.3 | 61 | |

| SPECIMEN | AFTERFLAME (sec) | AFTER GLOW (sec) | CHAR LENGTH (mm) | DRIP/MELT (Yes/No) |
|----------|------------------|------------------|------------------|-----------------------|
| 1 | 0.0 | 23.8 | 62 | No |
| 2 | 0.0 | 22.4 | 64 | No |
| AVG. | 0.0 | 23.1 | 63 | |

Date: September 6, 2018

PRODUCT DESCRIPTION: Omni Vantage (Dark Brown)

TEST METHOD: In accordance with Section 7.1.3 and Section 8.2

CONDITIONING: Xeros outershell laundering 50 cycles, and in accordance with Section 8.1.3

TEAR WEIGHT: 200 g

MACHINE DIRECTION

| SPECIMEN | AFTERFLAME (sec) | AFTER GLOW (sec) | CHAR LENGTH (mm) | DRIP/MELT (Yes/No) |
|----------|------------------|------------------|------------------|-----------------------|
| 1 | 0.0 | 17.5 | 61 | No |
| 2 | 0.0 | 22.4 | 65 | No |
| AVG. | 0.0 | 20.0 | 63 | |

CROSS MACHINE DIRECTION

| SPECIMEN | AFTERFLAME (sec) | AFTER GLOW (sec) | CHAR LENGTH (mm) | DRIP/MELT (Yes/No) |
|----------|------------------|------------------|------------------|-----------------------|
| 1 | 0.0 | 27.1 | 56 | No |
| 2 | 0.0 | 32.7 | 60 | No |
| AVG. | 0.0 | 29.9 | 58 | |

PRODUCT DESCRIPTION: Omni Vantage (Light Brown)

TEST METHOD: In accordance with Section 7.1.3 and Section 8.2

CONDITIONING: Milnor outershell laundering 10 cycles, and in accordance with Section 8.1.3

TEAR WEIGHT: 200 g

MACHINE DIRECTION

| SPECIMEN | AFTERFLAME (sec) | AFTER GLOW (sec) | CHAR LENGTH (mm) | DRIP/MELT (Yes/No) |
|----------|------------------|------------------|------------------|-----------------------|
| 1 | 0.0 | 2.6 | 35 | No |
| 2 | 0.0 | 2.0 | 40 | No |
| AVG. | 0.0 | 2.3 | 38 | |

| CROSS MACHINE DIRECTION | | | | | |
|-------------------------|------------|------------|-------------|-----------|--|
| CDECIMAEN | AFTERFLAME | AFTER GLOW | CHAR LENGTH | DRIP/MELT | |
| SPECIMEN | (sec) | (sec) | (mm) | (Yes/No) | |
| 1 | 0.0 | 3.6 | 23 | No | |
| 2 | 0.0 | 1.9 | 40 | No | |
| AVG. | 0.0 | 2.8 | 32 | | |

Date: September 6, 2018

PRODUCT DESCRIPTION: Omni Vantage (Dark Brown)

TEST METHOD: In accordance with Section 7.1.3 and Section 8.2

CONDITIONING: Milnor outershell laundering 30 cycles, and in accordance with Section 8.1.3

TEAR WEIGHT: 200 g

MACHINE DIRECTION

| SPECIMEN | AFTERFLAME (sec) | AFTER GLOW (sec) | CHAR LENGTH (mm) | DRIP/MELT (Yes/No) |
|----------|------------------|------------------|------------------|-----------------------|
| 1 | 0.0 | 20.6 | 70 | No |
| 2 | 0.0 | 19.3 | 59 | No |
| AVG. | 0.0 | 20.0 | 65 | |

CROSS MACHINE DIRECTION

| SPECIMEN | AFTERFLAME (sec) | AFTER GLOW (sec) | CHAR LENGTH (mm) | DRIP/MELT (Yes/No) |
|----------|------------------|------------------|------------------|-----------------------|
| 1 | 0.0 | 13.8 | 61 | No |
| 2 | 0.0 | 26.7 | 60 | No |
| AVG. | 0.0 | 20.3 | 61 | |

PRODUCT DESCRIPTION: Omni Vantage (Dark Brown)

TEST METHOD: In accordance with Section 7.1.3 and Section 8.2

CONDITIONING: Milnor outershell laundering 50 cycles, and in accordance with Section 8.1.3

TEAR WEIGHT: 200 g

MACHINE DIRECTION

| SPECIMEN | AFTERFLAME (sec) | AFTER GLOW (sec) | CHAR LENGTH (mm) | DRIP/MELT (Yes/No) |
|----------|------------------|------------------|------------------|-----------------------|
| 1 | 0.0 | 25.3 | 65 | No |
| 2 | 0.0 | 23.6 | 60 | No |
| AVG. | 0.0 | 24.5 | 63 | |

| CROSS MACHINE DIRECTION | | | | | |
|-------------------------|------------|------------|-------------|-----------|--|
| SPECIMEN | AFTERFLAME | AFTER GLOW | CHAR LENGTH | DRIP/MELT | |
| SPECIIVIEIN | (sec) | (sec) | (mm) | (Yes/No) | |
| 1 | 0.0 | 25.3 | 57 | No | |
| 2 | 0.0 | 21.1 | 61 | No | |
| AVG. | 0.0 | 23.2 | 59 | | |

Date: September 6, 2018

SECTION 7.1.11 TEAR RESISTANCE TEST

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Tan) **TEST METHOD:** In accordance with Section 7.1.11 and Section 8.12

CONDITIONING: In accordance with Section 8.1.3

MACHINE DIRECTION

| | TEARING | AVG. | |
|------|-------------|-------------|-------|
| PEAK | SPECIMEN 1* | SPECIMEN 2* | |
| 1 | 630.0 | 710.7 | |
| 2 | 678.8 | 749.0 | |
| 3 | 824.0 | 758.4 | |
| 4 | 882.5 | 938.6 | |
| 5 | 810.5 | 945.6 | |
| AVG. | 765.2 | 820.5 | 792.8 |

^{*}Specimen exhibited yarn distortion

| | TEARING | AVG. | |
|------|-------------|-------------|-------|
| PEAK | SPECIMEN 1* | SPECIMEN 2* | |
| 1 | 617.9 | 593.8 | |
| 2 | 548.9 | 570.8 | |
| 3 | 545.9 | 632.2 | |
| 4 | 869.4 | 748.6 | |
| 5 | 697.0 | 872.4 | |
| AVG. | 655.8 | 683.6 | 669.7 |

^{*}Specimen exhibited yarn distortion

Date: September 6, 2018

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Tan) **TEST METHOD:** In accordance with Section 7.1.11 and Section 8.12

CONDITIONING: Xeros outershell laundering 10 cycles, and in accordance with Section 8.1.3

MACHINE DIRECTION

| | TEARING | AVG. | |
|------|-------------|-------------|-------|
| PEAK | SPECIMEN 1* | SPECIMEN 2* | |
| 1 | 565.4 | 663.7 | |
| 2 | 563.5 | 643.4 | |
| 3 | 578.5 | 697.5 | |
| 4 | 649.9 | 834.5 | |
| 5 | 777.1 | 879.2 | |
| AVG. | 626.9 | 743.7 | 685.3 |

^{*}Specimen exhibited yarn distortion

CROSS MACHINE DIRECTION

| | TEARING | AVG. | |
|------|-------------|-------------|-------|
| PEAK | SPECIMEN 1* | SPECIMEN 2* | |
| 1 | 599.1 | 520.9 | |
| 2 | 612.4 | 493.0 | |
| 3 | 583.1 | 511.7 | |
| 4 | 625.1 | 533.6 | |
| 5 | 821.9 | 680.7 | |
| AVG. | 648.3 | 548.0 | 598.2 |

^{*}Specimen exhibited yarn distortion

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Tan) **TEST METHOD:** In accordance with Section 7.1.11 and Section 8.12

CONDITIONING: Xeros outershell laundering 30 cycles, and in accordance with Section 8.1.3

MACHINE DIRECTION

| | TEARING | AVG. | |
|------|-------------|-------------|-------|
| PEAK | SPECIMEN 1* | SPECIMEN 2* | |
| 1 | 627.6 | 304.9 | |
| 2 | 660.2 | 290.7 | |
| 3 | 668.0 | 312.1 | |
| 4 | 696.6 | 593.0 | |
| 5 | 847.7 | 847.0 | |
| AVG. | 700.0 | 469.5 | 584.8 |

^{*}Specimen exhibited yarn distortion

| | TEARING | AVG. | |
|------|-------------|-------------|-------|
| PEAK | SPECIMEN 1* | SPECIMEN 2* | |
| 1 | 528.7 | 507.5 | |
| 2 | 531.1 | 507.0 | |
| 3 | 541.5 | 584.5 | |
| 4 | 657.5 | 644.0 | |
| 5 | 827.7 | 782.6 | |
| AVG. | 617.3 | 605.1 | 611.2 |

^{*}Specimen exhibited yarn distortion

Date: September 6, 2018

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Tan) **TEST METHOD:** In accordance with Section 7.1.11 and Section 8.12

CONDITIONING: Xeros outershell laundering 50 cycles, and in accordance with Section 8.1.3

MACHINE DIRECTION

| | TEARING | AVG. | |
|------|-------------|-------------|-------|
| PEAK | SPECIMEN 1* | SPECIMEN 2* | |
| 1 | 527.0 | 523.1 | |
| 2 | 648.1 | 635.1 | |
| 3 | 595.5 | 665.5 | |
| 4 | 596.5 | 654.9 | |
| 5 | 563.7 | 608.2 | |
| AVG. | 586.2 | 617.4 | 601.8 |

^{*}Specimen exhibited yarn distortion

CROSS MACHINE DIRECTION

| | TEARING | AVG. | |
|------|-------------|-------------|-------|
| PEAK | SPECIMEN 1* | SPECIMEN 2* | |
| 1 | 476.6 | 405.1 | |
| 2 | 485.5 | 400.6 | |
| 3 | 586.2 | 428.3 | |
| 4 | 781.2 | 589.1 | |
| 5 | 735.7 | 750.8 | |
| AVG. | 613.0 | 514.8 | 563.9 |

^{*}Specimen exhibited yarn distortion

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Black) **TEST METHOD:** In accordance with Section 7.1.11 and Section 8.12

CONDITIONING: Milnor outershell laundering 10 cycles, and in accordance with Section 8.1.3

MACHINE DIRECTION

| | TEARING | AVG. | |
|------|-------------|-------------|-------|
| PEAK | SPECIMEN 1* | SPECIMEN 2* | |
| 1 | 635.8 | 517.9 | |
| 2 | 726.8 | 543.4 | |
| 3 | 735.6 | 570.2 | |
| 4 | 781.0 | 664.6 | |
| 5 | 839.0 | 849.3 | |
| AVG. | 743.6 | 629.1 | 686.4 |

^{*}Specimen exhibited yarn distortion

| | TEARING | AVG. | |
|------|-------------|-------------|-------|
| PEAK | SPECIMEN 1* | SPECIMEN 2* | |
| 1 | 551.3 | 525.8 | |
| 2 | 576.2 | 562.4 | |
| 3 | 757.7 | 655.5 | |
| 4 | 770.2 | 836.0 | |
| 5 | 766.8 | 806.0 | |
| AVG. | 684.4 | 677.1 | 680.8 |

^{*}Specimen exhibited yarn distortion

Date: September 6, 2018

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Black) **TEST METHOD:** In accordance with Section 7.1.11 and Section 8.12

CONDITIONING: Milnor outershell laundering 30 cycles, and in accordance with Section 8.1.3

MACHINE DIRECTION

| | TEARING | AVG. | |
|------|-------------|-------------|-------|
| PEAK | SPECIMEN 1* | SPECIMEN 2* | |
| 1 | 505.7 | 260.2 | |
| 2 | 463.5 | 247.5 | |
| 3 | 480.1 | 460.4 | |
| 4 | 548.2 | 525.2 | |
| 5 | 524.8 | 383.6 | |
| AVG. | 504.5 | 375.4 | 439.9 |

^{*}Specimen exhibited yarn distortion

CROSS MACHINE DIRECTION

| | TEARING FORCE (N) | | AVG. |
|------|-------------------|-------------|-------|
| PEAK | SPECIMEN 1* | SPECIMEN 2* | |
| 1 | 353.4 | 419.9 | |
| 2 | 386.5 | 508.2 | |
| 3 | 410.5 | 568.1 | |
| 4 | 410.4 | 646.4 | |
| 5 | 462.9 | 593.2 | |
| AVG. | 404.7 | 547.2 | 476.0 |

^{*}Specimen exhibited yarn distortion

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Black) **TEST METHOD:** In accordance with Section 7.1.11 and Section 8.12

CONDITIONING: Milnor outershell laundering 50 cycles, and in accordance with Section 8.1.3

MACHINE DIRECTION

| | TEARING FORCE (N) | | AVG. |
|------|-------------------|-------------|-------|
| PEAK | SPECIMEN 1* | SPECIMEN 2* | |
| 1 | 224.3 | 229.4 | |
| 2 | 248.4 | 296.5 | |
| 3 | 245.7 | 252.6 | |
| 4 | 263.6 | 248.6 | |
| 5 | 242.0 | 217.5 | |
| AVG. | 244.8 | 248.9 | 246.9 |

^{*}Specimen exhibited yarn distortion

| | TEARING FORCE (N) | | AVG. |
|------|-------------------|-------------|-------|
| PEAK | SPECIMEN 1* | SPECIMEN 2* | |
| 1 | 193.2 | 215.2 | |
| 2 | 245.7 | 256.6 | |
| 3 | 246.1 | 255.8 | |
| 4 | 223.2 | 240.8 | |
| 5 | 275.0 | 216.3 | |
| AVG. | 236.6 | 236.9 | 236.8 |

^{*}Specimen exhibited yarn distortion

Date: September 6, 2018

SECTION 7.1.11 TEAR RESISTANCE TEST

PRODUCT DESCRIPTION: Omni Vantage (Light Brown)

TEST METHOD: In accordance with Section 7.1.11 and Section 8.12

CONDITIONING: In accordance with Section 8.1.3

MACHINE DIRECTION

| | TEARING FORCE (N) | | AVG. |
|------|-------------------|------------|-------|
| PEAK | SPECIMEN 1 | SPECIMEN 2 | |
| 1 | 112.6 | 125.2 | |
| 2 | 119.5 | 121.5 | |
| 3 | 134.1 | 129.0 | |
| 4 | 141.3 | 123.2 | |
| 5 | 128.6 | 119.6 | |
| AVG. | 127.2 | 123.7 | 125.5 |

| | TEARING | TEARING FORCE (N) | |
|------|------------|-------------------|------|
| PEAK | SPECIMEN 1 | SPECIMEN 2 | |
| 1 | 87.1 | 87.6 | |
| 2 | 95.8 | 99.4 | |
| 3 | 86.5 | 93.3 | |
| 4 | 97.4 | 87.3 | |
| 5 | 91.0 | 100.4 | |
| AVG. | 91.6 | 93.6 | 92.6 |

Date: September 6, 2018

PRODUCT DESCRIPTION: Omni Vantage (Dark Brown)

TEST METHOD: In accordance with Section 7.1.11 and Section 8.12

CONDITIONING: In accordance with Section 8.1.3

MACHINE DIRECTION

| | TEARING FORCE (N) | | AVG. |
|------|-------------------|------------|-------|
| PEAK | SPECIMEN 1 | SPECIMEN 2 | |
| 1 | 148.1 | 145.5 | |
| 2 | 150.8 | 146.1 | |
| 3 | 171.1 | 150.9 | |
| 4 | 154.2 | 149.4 | |
| 5 | 144.9 | 145.6 | |
| AVG. | 153.8 | 147.5 | 150.7 |

CROSS MACHINE DIRECTION

| | TEARING FORCE (N) | | AVG. |
|------|-------------------|------------|-------|
| PEAK | SPECIMEN 1 | SPECIMEN 2 | |
| 1 | 130.4 | 126.2 | |
| 2 | 134.6 | 123.0 | |
| 3 | 120.9 | 119.7 | |
| 4 | 117.2 | 137.5 | |
| 5 | 134.3 | 127.2 | |
| AVG. | 127.5 | 126.7 | 127.1 |

PRODUCT DESCRIPTION: Omni Vantage (Dark Brown)

TEST METHOD: In accordance with Section 7.1.11 and Section 8.12

CONDITIONING: Xeros outershell laundering 10 cycles, and in accordance with Section 8.1.3

MACHINE DIRECTION

| | TEARING FORCE (N) | | AVG. |
|------|-------------------|------------|-------|
| PEAK | SPECIMEN 1 | SPECIMEN 2 | |
| 1 | 125.4 | 129.6 | |
| 2 | 125.9 | 133.8 | |
| 3 | 128.4 | 128.0 | |
| 4 | 136.0 | 128.1 | |
| 5 | 136.5 | 125.7 | |
| AVG. | 130.4 | 129.0 | 129.7 |

| | TEARING FORCE (N) | | AVG. |
|------|-------------------|------------|-------|
| PEAK | SPECIMEN 1 | SPECIMEN 2 | |
| 1 | 120.9 | 104.7 | |
| 2 | 99.6 | 101.8 | |
| 3 | 100.0 | 99.1 | |
| 4 | 99.6 | 106.4 | |
| 5 | 107.8 | 99.1 | |
| AVG. | 105.6 | 102.2 | 103.9 |

Date: September 6, 2018

PRODUCT DESCRIPTION: Omni Vantage (Dark Brown)

TEST METHOD: In accordance with Section 7.1.11 and Section 8.12

CONDITIONING: Xeros outershell laundering 30 cycles, and in accordance with Section 8.1.3

MACHINE DIRECTION

| | TEARING FORCE (N) | | AVG. |
|------|-------------------|------------|-------|
| PEAK | SPECIMEN 1 | SPECIMEN 2 | |
| 1 | 129.1 | 115.2 | |
| 2 | 122.8 | 117.7 | |
| 3 | 123.0 | 126.2 | |
| 4 | 123.6 | 114.4 | |
| 5 | 129.9 | 119.1 | |
| AVG. | 125.7 | 118.5 | 122.1 |

CROSS MACHINE DIRECTION

| | TEARING FORCE (N) | | AVG. |
|------|-------------------|------------|------|
| PEAK | SPECIMEN 1 | SPECIMEN 2 | |
| 1 | 92.4 | 99.1 | |
| 2 | 92.6 | 105.4 | |
| 3 | 98.3 | 94.6 | |
| 4 | 95.2 | 93.3 | |
| 5 | 93.9 | 93.1 | |
| AVG. | 94.5 | 97.1 | 95.8 |

PRODUCT DESCRIPTION: Omni Vantage (Dark Brown)

TEST METHOD: In accordance with Section 7.1.11 and Section 8.12

CONDITIONING: Xeros outershell laundering 50 cycles, and in accordance with Section 8.1.3

MACHINE DIRECTION

| | TEARING FORCE (N) | | AVG. |
|------|-------------------|------------|-------|
| PEAK | SPECIMEN 1 | SPECIMEN 2 | |
| 1 | 111.1 | 110.7 | |
| 2 | 112.9 | 103.7 | |
| 3 | 116.0 | 108.7 | |
| 4 | 115.2 | 104.7 | |
| 5 | 113.1 | 102.4 | |
| AVG. | 113.7 | 106.0 | 109.9 |

| | TEARING FORCE (N) | | AVG. |
|------|-------------------|------------|------|
| PEAK | SPECIMEN 1 | SPECIMEN 2 | |
| 1 | 82.6 | 85.8 | |
| 2 | 82.8 | 84.4 | |
| 3 | 81.8 | 87.6 | |
| 4 | 91.8 | 83.3 | |
| 5 | 83.6 | 85.5 | |
| AVG. | 84.5 | 85.3 | 84.9 |

Date: September 6, 2018

PRODUCT DESCRIPTION: Omni Vantage (Light Brown)

TEST METHOD: In accordance with Section 7.1.11 and Section 8.12

CONDITIONING: Milnor outershell laundering 10 cycles, and in accordance with Section 8.1.3

MACHINE DIRECTION

| | TEARING FORCE (N) | | AVG. |
|------|-------------------|------------|-------|
| PEAK | SPECIMEN 1 | SPECIMEN 2 | |
| 1 | 90.9 | 106.0 | |
| 2 | 101.2 | 114.2 | |
| 3 | 99.0 | 113.9 | |
| 4 | 91.8 | 104.9 | |
| 5 | 89.3 | 104.1 | |
| AVG. | 94.4 | 108.6 | 101.5 |

CROSS MACHINE DIRECTION

| | TEARING FORCE (N) | | AVG. |
|------|-------------------|------------|------|
| PEAK | SPECIMEN 1 | SPECIMEN 2 | |
| 1 | 70.3 | 81.0 | |
| 2 | 76.3 | 69.1 | |
| 3 | 74.1 | 77.3 | |
| 4 | 92.6 | 81.5 | |
| 5 | 78.5 | 87.3 | |
| AVG. | 78.4 | 77.2 | 77.8 |

PRODUCT DESCRIPTION: Omni Vantage (Dark Brown)

TEST METHOD: In accordance with Section 7.1.11 and Section 8.12

CONDITIONING: Milnor outershell laundering 30 cycles, and in accordance with Section 8.1.3

MACHINE DIRECTION

| | TEARING | AVG. | |
|------|------------|------------|-------|
| PEAK | SPECIMEN 1 | SPECIMEN 2 | |
| 1 | 107.9 | 107.4 | |
| 2 | 107.8 | 114.7 | |
| 3 | 111.6 | 117.3 | |
| 4 | 110.7 | 125.7 | |
| 5 | 112.8 | 107.9 | |
| AVG. | 110.2 | 114.6 | 112.4 |

| | TEARING | AVG. | |
|------|------------|------------|------|
| PEAK | SPECIMEN 1 | SPECIMEN 2 | |
| 1 | 78.4 | 79.3 | |
| 2 | 77.2 | 87.5 | |
| 3 | 81.6 | 80.7 | |
| 4 | 81.6 | 77.1 | |
| 5 | 83.2 | 78.5 | |
| AVG. | 80.4 | 80.6 | 80.5 |

Date: September 6, 2018

PRODUCT DESCRIPTION: Omni Vantage (Dark Brown)

TEST METHOD: In accordance with Section 7.1.11 and Section 8.12

CONDITIONING: Milnor outershell laundering 50 cycles, and in accordance with Section 8.1.3

MACHINE DIRECTION

| | TEARING FORCE (N) | | AVG. |
|------|-------------------|------------|-------|
| PEAK | SPECIMEN 1 | SPECIMEN 2 | |
| 1 | 107.6 | 109.1 | |
| 2 | 109.7 | 108.3 | |
| 3 | 108.0 | 113.1 | |
| 4 | 105.1 | 115.3 | |
| 5 | 102.2 | 108.9 | |
| AVG. | 106.5 | 110.9 | 108.7 |

| | TEARING | AVG. | |
|------|------------|------------|------|
| PEAK | SPECIMEN 1 | SPECIMEN 2 | |
| 1 | 68.3 | 74.2 | |
| 2 | 73.8 | 77.1 | |
| 3 | 77.1 | 77.0 | |
| 4 | 74.7 | 77.7 | |
| 5 | 68.4 | 80.0 | |
| AVG. | 72.5 | 77.2 | 74.8 |

Date: September 6, 2018

SECTION 7.1.18

WATER ABSORPTION RESISTANCE TEST

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Tan) **TEST METHOD:** In accordance with Section 7.1.18 and Section 8.25

CONDITIONING: In accordance with Section 8.1.3

| SPECIMEN | WET WEIGHT (g) | DRY WEIGHT (g) | WATER ABSORPTION (%) |
|----------|----------------|----------------|----------------------|
| 1 | 2.63 | 2.60 | 1.2 |

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Tan) **TEST METHOD:** In accordance with Section 7.1.18 and Section 8.25

CONDITIONING: Xeros outershell laundering 10 cycles, and in accordance with Section 8.1.3

| SPECIMEN | WET WEIGHT (g) | DRY WEIGHT (g) | WATER ABSORPTION (%) |
|----------|----------------|----------------|----------------------|
| 1 | 2.92 | 2.69 | 8.6 |

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Tan) **TEST METHOD:** In accordance with Section 7.1.18 and Section 8.25

CONDITIONING: Xeros outershell laundering 30 cycles, and in accordance with Section 8.1.3

| SPECIMEN | WET WEIGHT (g) | DRY WEIGHT (g) | WATER ABSORPTION (%) |
|----------|----------------|----------------|----------------------|
| 1 | 3.15 | 2.95 | 6.8 |

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Tan) **TEST METHOD:** In accordance with Section 7.1.18 and Section 8.25

CONDITIONING: Xeros outershell laundering 50 cycles, and in accordance with Section 8.1.3

| SPECIMEN | WET WEIGHT (g) | DRY WEIGHT (g) | WATER ABSORPTION (%) |
|----------|----------------|----------------|----------------------|
| 1 | 3.23 | 2.99 | 8.0 |

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Black) **TEST METHOD:** In accordance with Section 7.1.18 and Section 8.25

CONDITIONING: Milnor outershell laundering 10 cycles, and in accordance with Section 8.1.3

| SPECIMEN | WET WEIGHT (g) | DRY WEIGHT (g) | WATER ABSORPTION (%) |
|----------|----------------|----------------|----------------------|
| 1 | 3.03 | 2.84 | 6.7 |

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Black) **TEST METHOD:** In accordance with Section 7.1.18 and Section 8.25

CONDITIONING: Milnor outershell laundering 30 cycles, and in accordance with Section 8.1.3

| SPECIMEN | WET WEIGHT (g) | DRY WEIGHT (g) | WATER ABSORPTION (%) |
|----------|----------------|----------------|----------------------|
| 1 | 3.29 | 2.98 | 10.4 |

Date: September 6, 2018

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Black) **TEST METHOD:** In accordance with Section 7.1.18 and Section 8.25

CONDITIONING: Milnor outershell laundering 50 cycles, and in accordance with Section 8.1.3

| SPECIMEN | WET WEIGHT (g) | DRY WEIGHT (g) | WATER ABSORPTION (%) |
|----------|----------------|----------------|----------------------|
| 1 | 3.44 | 3.05 | 12.8 |

SECTION 7.1.18

WATER ABSORPTION RESISTANCE TEST

PRODUCT DESCRIPTION: Omni Vantage (Light Brown)

TEST METHOD: In accordance with Section 7.1.18 and Section 8.25

CONDITIONING: In accordance with Section 8.1.3

| SPECIMEN | WET WEIGHT (g) | DRY WEIGHT (g) | WATER ABSORPTION (%) |
|----------|----------------|----------------|----------------------|
| 1 | 2.81 | 2.78 | 1.1 |

PRODUCT DESCRIPTION: Omni Vantage (Dark Brown)

TEST METHOD: In accordance with Section 7.1.18 and Section 8.25

CONDITIONING: In accordance with Section 8.1.3

| SPECIMEN | WET WEIGHT (g) | DRY WEIGHT (g) | WATER ABSORPTION (%) |
|----------|----------------|----------------|----------------------|
| 1 | 2.65 | 2.63 | 0.8 |

PRODUCT DESCRIPTION: Omni Vantage (Dark Brown)

TEST METHOD: In accordance with Section 7.1.18 and Section 8.25

CONDITIONING: Xeros outershell laundering 10 cycles, and in accordance with Section 8.1.3

| SPECIMEN | WET WEIGHT (g) | DRY WEIGHT (g) | WATER ABSORPTION (%) |
|----------|----------------|----------------|----------------------|
| 1 | 2.91 | 2.72 | 7.0 |

PRODUCT DESCRIPTION: Omni Vantage (Dark Brown)

TEST METHOD: In accordance with Section 7.1.18 and Section 8.25

CONDITIONING: Xeros outershell laundering 30 cycles, and in accordance with Section 8.1.3

| SPECIMEN | WET WEIGHT (g) | DRY WEIGHT (g) | WATER ABSORPTION (%) |
|----------|----------------|----------------|----------------------|
| 1 | 3.08 | 2.72 | 13.2 |

PRODUCT DESCRIPTION: Omni Vantage (Dark Brown)

TEST METHOD: In accordance with Section 7.1.18 and Section 8.25

CONDITIONING: Xeros outershell laundering 50 cycles, and in accordance with Section 8.1.3

| SPECIMEN | WET WEIGHT (g) | DRY WEIGHT (g) | WATER ABSORPTION (%) |
|----------|----------------|----------------|----------------------|
| 1 | 3.30 | 2.73 | 20.9 |

Date: September 6, 2018

PRODUCT DESCRIPTION: Omni Vantage (Light Brown)

TEST METHOD: In accordance with Section 7.1.18 and Section 8.25

CONDITIONING: Milnor outershell laundering 10 cycles, and in accordance with Section 8.1.3

| SPECIMEN | WET WEIGHT (g) | DRY WEIGHT (g) | WATER ABSORPTION (%) |
|----------|----------------|----------------|----------------------|
| 1 | 3.46 | 3.05 | 13.4 |

PRODUCT DESCRIPTION: Omni Vantage (Dark Brown)

TEST METHOD: In accordance with Section 7.1.18 and Section 8.25

CONDITIONING: Milnor outershell laundering 30 cycles, and in accordance with Section 8.1.3

| SPECIMEN | WET WEIGHT (g) | DRY WEIGHT (g) | WATER ABSORPTION (%) | |
|----------|----------------|----------------|----------------------|--|
| 1 | 3.22 | 2.73 | 17.9 | |

PRODUCT DESCRIPTION: Omni Vantage (Dark Brown)

TEST METHOD: In accordance with Section 7.1.18 and Section 8.25

CONDITIONING: Milnor outershell laundering 50 cycles, and in accordance with Section 8.1.3

| SPECIMEN | WET WEIGHT (g) | DRY WEIGHT (g) | WATER ABSORPTION (%) |
|----------|----------------|----------------|----------------------|
| 1 | 3.73 | 2.77 | 34.7 |

Date: September 6, 2018

SECTION 7.2.4

CLEANING SHRINKAGE RESISTANCE

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Tan) **TEST METHOD:** In accordance with Section 7.2.4 and Section 8.24

CONDITIONING: Xeros outershell laundering 10 cycles, and in accordance with Section 8.1.3

| SPECIMEN | 1 | 1 | | |
|-----------------------|------|------|------|------|
| PRE-TEST LENGTH (mm) | 255 | 255 | 255 | 255 |
| POST-TEST LENGTH (mm) | 251 | 250 | 251 | 251 |
| % CHANGE IN LENGTH | -1.6 | -2.0 | -1.6 | -1.7 |
| PRE-TEST WIDTH (mm) | 254 | 255 | 255 | 255 |
| POST-TEST WIDTH (mm) | 254 | 255 | 254 | 254 |
| % CHANGE IN WIDTH | 0.0 | 0.0 | -0.4 | -0.1 |

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Tan) **TEST METHOD:** In accordance with Section 7.2.4 and Section 8.24

CONDITIONING: Xeros outershell laundering 30 cycles, and in accordance with Section 8.1.3

| SPECIMEN | 1 | 1 | | |
|-----------------------|------|------|------|------|
| PRE-TEST LENGTH (mm) | 255 | 255 | 255 | 255 |
| POST-TEST LENGTH (mm) | 249 | 248 | 248 | 248 |
| % CHANGE IN LENGTH | -2.4 | -2.7 | -2.7 | -2.6 |
| PRE-TEST WIDTH (mm) | 254 | 254 | 254 | 254 |
| POST-TEST WIDTH (mm) | 253 | 252 | 253 | 253 |
| % CHANGE IN WIDTH | -0.4 | -0.8 | -0.4 | -0.5 |

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Tan) **TEST METHOD:** In accordance with Section 7.2.4 and Section 8.24

CONDITIONING: Xeros outershell laundering 50 cycles, and in accordance with Section 8.1.3

| SPECIMEN | 1 | | | AVG. |
|-----------------------|------|------|------|------|
| PRE-TEST LENGTH (mm) | 254 | 255 | 255 | 255 |
| POST-TEST LENGTH (mm) | 248 | 248 | 249 | 248 |
| % CHANGE IN LENGTH | -2.4 | -2.7 | -2.4 | -2.5 |
| PRE-TEST WIDTH (mm) | 254 | 255 | 254 | 254 |
| POST-TEST WIDTH (mm) | 252 | 252 | 251 | 252 |
| % CHANGE IN WIDTH | -0.8 | -1.2 | -1.2 | -1.0 |

Date: September 6, 2018

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Black) **TEST METHOD:** In accordance with Section 7.2.4 and Section 8.24

CONDITIONING: Milnor outershell laundering 10 cycles, and in accordance with Section 8.1.3

| SPECIMEN | 1 | | | AVG. |
|-----------------------|------|------|------|------|
| PRE-TEST LENGTH (mm) | 254 | 254 | 254 | 254 |
| POST-TEST LENGTH (mm) | 249 | 248 | 248 | 248 |
| % CHANGE IN LENGTH | -2.0 | -2.4 | -2.4 | -2.2 |
| PRE-TEST WIDTH (mm) | 254 | 254 | 253 | 254 |
| POST-TEST WIDTH (mm) | 252 | 252 | 252 | 252 |
| % CHANGE IN WIDTH | -0.8 | -0.8 | -0.4 | -0.7 |

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Black) **TEST METHOD:** In accordance with Section 7.2.4 and Section 8.24

CONDITIONING: Milnor outershell laundering 30 cycles, and in accordance with Section 8.1.3

| SPECIMEN | 1 | | | AVG. |
|-----------------------|------|------|------|------|
| PRE-TEST LENGTH (mm) | 254 | 254 | 254 | 254 |
| POST-TEST LENGTH (mm) | 249 | 248 | 248 | 248 |
| % CHANGE IN LENGTH | -2.0 | -2.4 | -2.4 | -2.2 |
| PRE-TEST WIDTH (mm) | 254 | 254 | 254 | 254 |
| POST-TEST WIDTH (mm) | 249 | 250 | 252 | 250 |
| % CHANGE IN WIDTH | -2.0 | -1.6 | -0.8 | -1.4 |

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Black) **TEST METHOD:** In accordance with Section 7.2.4 and Section 8.24

CONDITIONING: Milnor outershell laundering 50 cycles, and in accordance with Section 8.1.3

| SPECIMEN | 1 | | | AVG. |
|-----------------------|------|------|------|------|
| PRE-TEST LENGTH (mm) | 255 | 254 | 255 | 255 |
| POST-TEST LENGTH (mm) | 249 | 251 | 250 | 250 |
| % CHANGE IN LENGTH | -2.4 | -1.2 | -2.0 | -1.8 |
| PRE-TEST WIDTH (mm) | 254 | 254 | 254 | 254 |
| POST-TEST WIDTH (mm) | 246 | 246 | 246 | 246 |
| % CHANGE IN WIDTH | -3.1 | -3.1 | -3.1 | -3.1 |

Date: September 6, 2018

SECTION 7.2.4

CLEANING SHRINKAGE RESISTANCE

PRODUCT DESCRIPTION: Omni Vantage (light brown)

TEST METHOD: In accordance with Section 7.2.4 and Section 8.24

CONDITIONING: Xeros outershell laundering 10 cycles, and in accordance with Section 8.1.3

| SPECIMEN | 1 | | | AVG. |
|-----------------------|------|------|------|------|
| PRE-TEST LENGTH (mm) | 255 | 255 | 255 | 255 |
| POST-TEST LENGTH (mm) | 253 | 253 | 253 | 253 |
| % CHANGE IN LENGTH | -0.8 | -0.8 | -0.8 | -0.8 |
| PRE-TEST WIDTH (mm) | 254 | 255 | 255 | 255 |
| POST-TEST WIDTH (mm) | 250 | 251 | 251 | 251 |
| % CHANGE IN WIDTH | -1.6 | -1.6 | -1.6 | -1.6 |

PRODUCT DESCRIPTION: Omni Vantage (light brown)

TEST METHOD: In accordance with Section 7.2.4 and Section 8.24

CONDITIONING: Xeros outershell laundering 30 cycles, and in accordance with Section 8.1.3

| SPECIMEN | 1 | | | AVG. |
|-----------------------|------|------|------|------|
| PRE-TEST LENGTH (mm) | 255 | 255 | 255 | 255 |
| POST-TEST LENGTH (mm) | 253 | 253 | 254 | 253 |
| % CHANGE IN LENGTH | -0.8 | -0.8 | -0.4 | -0.7 |
| PRE-TEST WIDTH (mm) | 255 | 255 | 255 | 255 |
| POST-TEST WIDTH (mm) | 248 | 249 | 249 | 249 |
| % CHANGE IN WIDTH | -2.7 | -2.4 | -2.4 | -2.5 |

PRODUCT DESCRIPTION: Omni Vantage (light brown)

TEST METHOD: In accordance with Section 7.2.4 and Section 8.24

CONDITIONING: Xeros outershell laundering 50 cycles, and in accordance with Section 8.1.3

| SPECIMEN | 1 | | | AVG. |
|-----------------------|------|------|------|------|
| PRE-TEST LENGTH (mm) | 255 | 255 | 255 | 255 |
| POST-TEST LENGTH (mm) | 254 | 254 | 253 | 254 |
| % CHANGE IN LENGTH | -0.4 | -0.4 | -0.8 | -0.5 |
| PRE-TEST WIDTH (mm) | 254 | 255 | 255 | 255 |
| POST-TEST WIDTH (mm) | 248 | 249 | 248 | 248 |
| % CHANGE IN WIDTH | -2.4 | -2.4 | -2.7 | -2.5 |

Date: September 6, 2018

PRODUCT DESCRIPTION: Omni Vantage (light brown)

TEST METHOD: In accordance with Section 7.2.4 and Section 8.24

CONDITIONING: Milnor outershell laundering 10 cycles, and in accordance with Section 8.1.3

| SPECIMEN | 1 | | | AVG. |
|-----------------------|------|------|------|------|
| PRE-TEST LENGTH (mm) | 255 | 255 | 256 | 255 |
| POST-TEST LENGTH (mm) | 252 | 251 | 253 | 252 |
| % CHANGE IN LENGTH | -1.2 | -1.6 | -1.2 | -1.3 |
| PRE-TEST WIDTH (mm) | 254 | 255 | 255 | 255 |
| POST-TEST WIDTH (mm) | 249 | 248 | 249 | 249 |
| % CHANGE IN WIDTH | -2.0 | -2.7 | -2.4 | -2.4 |

PRODUCT DESCRIPTION: Omni Vantage (light brown)

TEST METHOD: In accordance with Section 7.2.4 and Section 8.24

CONDITIONING: Milnor outershell laundering 30 cycles, and in accordance with Section 8.1.3

| SPECIMEN | 1 | | | AVG. |
|-----------------------|------|------|------|------|
| PRE-TEST LENGTH (mm) | 255 | 255 | 255 | 255 |
| POST-TEST LENGTH (mm) | 253 | 252 | 253 | 253 |
| % CHANGE IN LENGTH | -0.8 | -1.2 | -0.8 | -0.9 |
| PRE-TEST WIDTH (mm) | 254 | 254 | 255 | 254 |
| POST-TEST WIDTH (mm) | 248 | 247 | 247 | 247 |
| % CHANGE IN WIDTH | -2.4 | -2.8 | -3.1 | -2.8 |

PRODUCT DESCRIPTION: Omni Vantage (light brown)

TEST METHOD: In accordance with Section 7.2.4 and Section 8.24

CONDITIONING: Milnor outershell laundering 50 cycles, and in accordance with Section 8.1.3

| SPECIMEN | 1 | | | AVG. |
|-----------------------|------|------|------|------|
| PRE-TEST LENGTH (mm) | 255 | 255 | 256 | 255 |
| POST-TEST LENGTH (mm) | 253 | 252 | 253 | 253 |
| % CHANGE IN LENGTH | -0.8 | -1.2 | -1.2 | -1.0 |
| PRE-TEST WIDTH (mm) | 255 | 255 | 255 | 255 |
| POST-TEST WIDTH (mm) | 247 | 246 | 247 | 247 |
| % CHANGE IN WIDTH | -3.1 | -3.5 | -3.1 | -3.3 |

Date: September 6, 2018

SECTION 7.2.5

BREAKING STRENGTH TEST

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Tan) **TEST METHOD:** In accordance with Section 7.2.5 and Section 8.50

CONDITIONING: In accordance with Section 8.1.3

MACHINE DIRECTION

| SPECIMEN | BREAKING STREGNTH (N) |
|----------|--------------------------|
| 1 | 1781 |
| 2 | 1698 |
| AVG. | 1740 |

CROSS MACHINE DIRECTION

| SPECIMEN | BREAKING STREGNTH (N) |
|----------|--------------------------|
| 1 | 1559 |
| 2 | 1665 |
| AVG. | 1612 |

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Tan) **TEST METHOD:** In accordance with Section 7.2.5 and Section 8.50

CONDITIONING: Xeros outershell laundering 10 cycles, and in accordance with Section 8.1.3

MACHINE DIRECTION

| SPECIMEN | BREAKING STREGNTH (N) |
|----------|--------------------------|
| 1 | 1428 |
| 2 | 1576 |
| AVG. | 1502 |

| SPECIMEN | BREAKING STREGNTH (N) |
|----------|--------------------------|
| 1 | 1491 |
| 2 | 1450 |
| AVG. | 1470 |

Date: September 6, 2018

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Tan) **TEST METHOD:** In accordance with Section 7.2.5 and Section 8.50

CONDITIONING: Xeros outershell laundering 30 cycles, and in accordance with Section 8.1.3

MACHINE DIRECTION

| SPECIMEN | BREAKING |
|----------|--------------|
| | STREGNTH (N) |
| 1 | 1293 |
| 2 | 1318 |
| AVG. | 1306 |

CROSS MACHINE DIRECTION

| SPECIMEN | BREAKING |
|----------|--------------|
| | STREGNTH (N) |
| 1 | 1600 |
| 2 | 1503 |
| AVG. | 1552 |

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Tan) **TEST METHOD:** In accordance with Section 7.2.5 and Section 8.50

CONDITIONING: Xeros outershell laundering 50 cycles, and in accordance with Section 8.1.3

MACHINE DIRECTION

| SPECIMEN | BREAKING STREGNTH (N) |
|----------|--------------------------|
| 1 | 1409 |
| 2 | 1279 |
| AVG. | 1344 |

| SPECIMEN | BREAKING STREGNTH (N) |
|----------|--------------------------|
| 1 | 1233 |
| 2 | 1341 |
| AVG. | 1287 |

Date: September 6, 2018

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Black) **TEST METHOD:** In accordance with Section 7.2.5 and Section 8.50

CONDITIONING: Milnor outershell laundering 10 cycles, and in accordance with Section 8.1.3

MACHINE DIRECTION

| SPECIMEN | BREAKING STREGNTH (N) |
|----------|--------------------------|
| 1 | 1281 |
| 2 | 1371 |
| AVG. | 1326 |

CROSS MACHINE DIRECTION

| SPECIMEN | BREAKING |
|----------|--------------|
| | STREGNTH (N) |
| 1 | 1253 |
| 2 | 1246 |
| AVG. | 1250 |

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Black) **TEST METHOD:** In accordance with Section 7.2.5 and Section 8.50

CONDITIONING: Milnor outershell laundering 30 cycles, and in accordance with Section 8.1.3

MACHINE DIRECTION

| SPECIMEN | BREAKING STREGNTH (N) |
|----------|--------------------------|
| 1 | 1176 |
| 2 | 1298 |
| AVG. | 1237 |

| SPECIMEN | BREAKING STREGNTH (N) |
|----------|--------------------------|
| 1 | 1062 |
| 2 | 1028 |
| AVG. | 1045 |

Date: September 6, 2018

PRODUCT DESCRIPTION: PBI Max 7.0 oz/yd² with Teflon FPPE (Black) **TEST METHOD:** In accordance with Section 7.2.5 and Section 8.50

CONDITIONING: Milnor outershell laundering 50 cycles, and in accordance with Section 8.1.3

MACHINE DIRECTION

| SPECIMEN | BREAKING STREGNTH (N) |
|----------|--------------------------|
| 1 | 1078 |
| 2 | 1121 |
| AVG. | 1100 |

CROSS MACHINE DIRECTION

| SPECIMEN | BREAKING STREGNTH (N) |
|----------|--------------------------|
| 1 | 1000 |
| 2 | 1104 |
| AVG. | 1052 |

SECTION 7.2.5 BREAKING STRENGTH TEST

PRODUCT DESCRIPTION: Omni Vantage (Light Brown)

TEST METHOD: In accordance with Section 7.2.5 and Section 8.50

CONDITIONING: In accordance with Section 8.1.3

MACHINE DIRECTION

| SPECIMEN | BREAKING STREGNTH (N) |
|----------|--------------------------|
| 1 | 934 |
| 2 | 963 |
| AVG. | 948 |

| SPECIMEN | BREAKING STREGNTH (N) |
|----------|--------------------------|
| 1 | 820 |
| 2 | 894 |
| AVG. | 857 |

Date: September 6, 2018

PRODUCT DESCRIPTION: Omni Vantage (Dark Brown)

TEST METHOD: In accordance with Section 7.2.5 and Section 8.50

CONDITIONING: In accordance with Section 8.1.3

MACHINE DIRECTION

| SPECIMEN | BREAKING STREGNTH (N) |
|----------|--------------------------|
| 1 | 1229 |
| 2 | 1202 |
| AVG. | 1216 |

CROSS MACHINE DIRECTION

| SPECIMEN | BREAKING STREGNTH (N) |
|----------|--------------------------|
| 1 | 988 |
| 2 | 997 |
| AVG. | 992 |

PRODUCT DESCRIPTION: Omni Vantage (Dark Brown)

TEST METHOD: In accordance with Section 7.2.5 and Section 8.50

CONDITIONING: Xeros outershell laundering 10 cycles, and in accordance with Section 8.1.3

MACHINE DIRECTION

| SPECIMEN | BREAKING STREGNTH (N) |
|----------|--------------------------|
| 1 | 1141 |
| 2 | 1055 |
| AVG. | 1098 |

| SPECIMEN | BREAKING STREGNTH (N) |
|----------|--------------------------|
| 1 | 1054 |
| 2 | 967 |
| AVG. | 1011 |

Date: September 6, 2018

PRODUCT DESCRIPTION: Omni Vantage (Dark Brown)

TEST METHOD: In accordance with Section 7.2.5 and Section 8.50

CONDITIONING: Xeros outershell laundering 30 cycles, and in accordance with Section 8.1.3

MACHINE DIRECTION

| SPECIMEN | BREAKING STREGNTH (N) |
|----------|--------------------------|
| 1 | 1006 |
| 2 | 946 |
| AVG. | 976 |

CROSS MACHINE DIRECTION

| SPECIMEN | BREAKING |
|----------|--------------|
| | STREGNTH (N) |
| 1 | 756 |
| 2 | 815 |
| AVG. | 786 |

PRODUCT DESCRIPTION: Omni Vantage (Dark Brown)

TEST METHOD: In accordance with Section 7.2.5 and Section 8.50

CONDITIONING: Xeros outershell laundering 50 cycles, and in accordance with Section 8.1.3

MACHINE DIRECTION

| SPECIMEN | BREAKING STREGNTH (N) |
|----------|--------------------------|
| 1 | 973 |
| 2 | 901 |
| AVG. | 937 |

| SPECIMEN | BREAKING STREGNTH (N) |
|----------|--------------------------|
| 1 | 849 |
| 2 | 760 |
| AVG. | 805 |

Date: September 6, 2018

PRODUCT DESCRIPTION: Omni Vantage (Light Brown)

TEST METHOD: In accordance with Section 7.2.5 and Section 8.50

CONDITIONING: Milnor outershell laundering 10 cycles, and in accordance with Section 8.1.3

MACHINE DIRECTION

| SPECIMEN | BREAKING STREGNTH (N) |
|----------|--------------------------|
| 1 | 799 |
| 2 | 677 |
| AVG. | 738 |

CROSS MACHINE DIRECTION

| SPECIMEN | BREAKING |
|----------|--------------|
| | STREGNTH (N) |
| 1 | 726 |
| 2 | 699 |
| AVG. | 712 |

PRODUCT DESCRIPTION: Omni Vantage (Dark Brown)

TEST METHOD: In accordance with Section 7.2.5 and Section 8.50

CONDITIONING: Milnor outershell laundering 30 cycles, and in accordance with Section 8.1.3

MACHINE DIRECTION

| SPECIMEN | BREAKING STREGNTH (N) |
|----------|--------------------------|
| 1 | 887 |
| 2 | 896 |
| AVG. | 891 |

| SPECIMEN | BREAKING STREGNTH (N) |
|----------|--------------------------|
| 1 | 841 |
| 2 | 830 |
| AVG. | 836 |

Date: September 6, 2018

PRODUCT DESCRIPTION: Omni Vantage (Dark Brown)

TEST METHOD: In accordance with Section 7.2.5 and Section 8.50

CONDITIONING: Milnor outershell laundering 50 cycles, and in accordance with Section 8.1.3

MACHINE DIRECTION

| SPECIMEN | BREAKING STREGNTH (N) |
|----------|--------------------------|
| 1 | 786 |
| 2 | 902 |
| AVG. | 844 |

| SPECIMEN | BREAKING STREGNTH (N) |
|----------|--------------------------|
| 1 | 699 |
| 2 | 798 |
| AVG. | 748 |

Date: September 6, 2018

SECTION 4

PHOTOGRAPHS



OMNI VANTAGE (LIGHT BROWN) CLEANING SHRINKAGE SAMPLES

TOP: XEROS OUTERSHELL LAUNDERING 10 CYCLES, 30 CYCLES, 50 CYCLES **BOTTOM:** MILNOR OUTERSHELL LAUNDERING 10 CYCLES, 30 CYCLES, 50 CYCLES

LEFT: PRISTINE

Date: September 6, 2018



PBI Max 7.0 oz/yd² with Teflon FPPE (Tan and Black) CLEANING SHRINKAGE SAMPLES

TOP: XEROS OUTERSHELL LAUNDERING 10 CYCLES, 30 CYCLES, 50 CYCLES **BOTTOM:** MILNOR OUTERSHELL LAUNDERING 10 CYCLES, 30 CYCLES, 50 CYCLES

LEFT: PRISTINE



OMNI VANTAGE (LIGHT AND DARK BROWN) LAUNDERED FABRIC SWATCHES

TOP: DARK BROWN PRISTINE, XEROS OUTERSHELL LAUNDERING 10 CYCLES (DARK BROWN), 30 CYCLES (DARK BROWN), 50 CYCLES (DARK BROWN)

BOTTOM: LIGHT BROWN PRISTINE, MILNOR OUTERSHELL LAUNDERING 10 CYLCES (LIGHT BROWN), 30 CYCLES (DARK BROWN, 50 CYCLES (DARK BROWN)

Date: September 6, 2018



PBI Max 7.0 oz/yd² with Teflon FPPE (Tan and Black) LAUNDERED FABRIC SWATCHES

TOP: XEROS OUTERSHELL LAUNDERING 10 CYCLES, 30 CYCLES, 50 CYCLES **BOTTOM:** MILNOR OUTERSHELL LAUNDERING 10 CYCLES, 30 CYCLES, 50 CYCLES

LEFT: PRISTINE