| PAI | | | |
|--------------------------|--|---|------------------------|
| TEST REPORT | | | |
| Test Report # | 18W-003933 | Date of Report Issue: | November 9, 2018 |
| Date of Sample Received: | June 15, 2018 | Pages: | Page 1 of 39 |
| CLIENT INFORMATION: | | | |
| Company: | Spector & Co. | | - |
| Address: | - | | |
| SAMPLE INFORMATION: | | | |
| Description: | 32L round duffle with eas | sy access storage and cros | s body strap |
| Assortment: | Grey | | |
| Model/style No.: | NOMAD MUST HAVES DU | JFFLE | |
| SKU No.: | BG205 | | |
| Factory/Supplier: | USB059 | | |
| Quantity Submitted: | 2 | | |
| Country of Distribution: | Canada & USA | | |
| Country of Origin: | China | | |
| Testing Period: | 06/15/2018-06/27/2018, 09/26/2018-09/27/2018, | ,07/04/2018-07/12/2018, ,11/06/2018-11/09/2018 | 08/07/2018-08/09/2018, |

OVERALL RESULT:

\mathcal{P} PASS with information

Refer to page 2 for test result summary and appropriate notes.

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Keim.lee

Kevin Lee Technical Manager



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Date of Sample Received:

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TEST RESULTS SUMMARY:

At the request of the client, the following tests were conducted:

| CONCLUSION | TEST(S) CONDUCTED |
|------------------------------|--|
| PASS | California Proposition 65, Total Lead in Substrate Materials |
| PASS | Canadian Consumer Products Containing Lead (Contact with Mouth) Regulation SOR/2010-273 as Amended by SOR/2016-171, Total Lead in Accessible Substrates |
| PASS | California Proposition 65, Total Cadmium in Substrate Materials |
| PASS | California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP) |
| PASS | CPSC 16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates(DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP) |
| PASS | Client's Requirement, Phthalates content |
| PASS | 19 CFR 134.11, Country of Origin |
| PASS | Uniform Packaging and Labeling Regulation |
| PASS | Marking of Imported Goods Order, (C.R.C., c.535), Country of Origin |
| PASS | Charter of French Language, (R.S.Q., c.C-11), Province of Quebec Labeling |
| PASS | Consumer Packaging and Labeling Act (R.S., 1985, c. C-38) |
| PASS | Textile Labeling Act and Textile Labelling and Advertising Regulations- Labeling Review |
| PASS | Color Fastness to Crocking |
| PASS | Color Fastness to Water |
| PASS | Color Fastness to Light |
| Refer to Detailed Results | Dimensions |
| Refer to Detailed Results | The capacity in liters for bag |
| Refer to Detailed Results | Article Weight |
| PASS | Defects |
| PASS | Workmanship |
| PASS | SOR/2016-194 and Method F01 Flammability of Textile Products |
| Refer to Detailed Results | Fabric Weight Per Unit Area |
| PASS | Tensile Strength |
| PASS | Tearing Strength |



Test Report #18W-003933Date of Report Issue:November 9, 2018Date of Sample Received:June 15, 2018Pages:Page 3 of 39

| PASS | Bursting Strength |
|------------------------------|---|
| PASS | Seam Strength |
| PASS | Abrasion Resistance |
| PASS | Pilling Resistance |
| PASS | Zipper Strength |
| PASS | Zipper Operability |
| PASS | Water Repellency-Spray Test |
| PASS | Water Resistance – Rain Test |
| Refer to Detailed Results | Fiber Content |
| PASS | Client's Requirement for Static Load Test |





Pages:

DETAILED RESULTS:

California Proposition 65, Total Lead in Substrate Materials

Test Method:CPSC-CH-E1001-08.3 (Metal), CPSC-CH-E1002-08.3 (Non-Metal)Analytical Method:Inductively Coupled Plasma-Optical Emission Spectrometry

| Specimen No. | 1 | 2 | 3 | 4 | 5 | Limit |
|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------|
| Test Item | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | (mg/kg) |
| Total Lead (Pb) | 21 | 31 | 30 | 57 | ND | 100 |
| Conclusion | PASS | PASS | PASS | PASS | PASS | |

Note:

mg/kg =Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit =15 mg/kg)

Remark:

The specification is quoted from client's requirement.



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Pages:

DETAILED RESULTS:

Canadian Consumer Products Containing Lead (Contact with Mouth) Regulation SOR/2010-273 as Amended by SOR/2016-171, Total Lead in Accessible Substrates

Test Method:CPSC-CH-E1001-08.3 (Metal), CPSC-CH-E1002-08.3 (Non-Metal)Analytical Method:Inductively Coupled Plasma-Optical Emission Spectrometry

| Specimen No. | 1 | 2 | 3 | 4 | 5 | Limit |
|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------|
| Test Item | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | (mg/kg) |
| Total Lead (Pb) | 21 | 31 | 30 | 57 | ND | 90 |
| Conclusion | PASS | PASS | PASS | PASS | PASS | |

Note:

mg/kg = Milligrams per kilogram LT = Less than ND = Not detected (Reporting Limit = 15 mg/kg)



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Pages:

DETAILED RESULTS:

California Proposition 65, Total Cadmium in Substrate Materials

Test Method:ASTM F963-17 Clause 8.3.1Analytical Method:Inductively Coupled Plasma-Optical Emission Spectrometry

| Specimen No. | 1 | 2 | 3 | 4 | 5 | Limit |
|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------|
| Test Item | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | (mg/kg) |
| Total Cadmium (Cd) | ND | ND | ND | ND | ND | 75 |
| Conclusion | PASS | PASS | PASS | PASS | PASS | |

Note:

mg/kg =Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)

Remark:

The specification is quoted from client's requirement.



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Pages:

DETAILED RESULTS:

California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)

| Test Method: | CPSC-CH-C1001-09.3 |
|--------------------|---|
| Analytical Method: | Gas Chromatography with Mass Spectrometry |

| Specimen No. | | 5 | | | | Limit |
|---------------------------------------|--------------------------|--------------------|--------------------|--------------------|--------------------|----------|
| Test Item | CAS No. | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | (mg/kg) |
| Dibutyl phthalate (DBP) | 84-74-2 | ND | | | | 1000 |
| Benzyl butyl phthalate (BBP) | 85-68-7 | ND | | | | 1000 |
| Di-(2-ethylhexyl) phthalate (DEHP) | 117-81-7 | ND | | | | 1000 |
| Diisononyl phthalate (DINP) | 28553-12-0 68515-48-0 | ND | | | | 1000 |
| Diisodecyl phthalate (DIDP) | 26761-40-0 68515-49-1 | ND | | | | 1000 |
| Di-n-hexyl phthalate (DnHP) | 84-75-3 | ND | | | | 1000 |
| Conclusion | ı | PASS | | | | |

Note:

mg/kg (Milligrams per kilogram) = 0.0001 % m/m (Percent by mass)

LT = Less than

ND = Not detected (Reporting Limit = 150 mg/kg)

Remark:

The specification is quoted from client's requirement.



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Pages:

DETAILED RESULTS:

CPSC 16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP)

| Test Method: | CPSC-CH-C1001-09.3(Modified), In-House Method |
|--------------------|---|
| Analytical Method: | Gas Chromatography with Mass Spectrometry |

| Specimen N | 0. | 5 | | | | Limit |
|--|--------------------------|-------------------|-------------------|-------------------|-------------------|---------|
| Test Item | CAS No. | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | (mg/kg) |
| Dibutyl phthalate (DBP) | 84-74-2 | ND | | | | 1000 |
| Benzyl butyl phthalate (BBP) | 85-68-7 | ND | | | | 1000 |
| Di-(2-ethylhexyl) phthalate (DEHP) | 117-81-7 | ND | | | | 1000 |
| Diisononyl phthalate (DINP) | 28553-12-0 68515-48-0 | ND | | | | 1000 |
| Di-n-hexyl phthalate (DHEXP / DnHP) | 84-75-3 | ND | | | | 1000 |
| Dicyclohexyl phthalate (DCHP) | 84-61-7 | ND | | | | 1000 |
| Diisobutyl phthalate (DIBP) | 84-69-5 | ND | | | | 1000 |
| Di-n-pentyl phthalate (DPENP) | 131-18-0 | ND | | | | 1000 |
| Conclusior | 1 | PASS | | | | |

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 150 mg/kg)



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DETAILED RESULTS:

Client's Requirement, Phthalates content

| Test Method: | CPSC-CH-C1001-09.3 |
|--------------------|---|
| Analytical Method: | Gas Chromatography with Mass Spectrometry |

| Specimen No. | | 5 | | | | Limit |
|--|--------------------------|--------------------|--------------------|--------------------|--------------------|----------|
| Test Item | CAS No. | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | (mg/kg) |
| Dibutyl phthalate (DBP) | 84-74-2 | ND | | | | 1000 |
| Benzyl butyl phthalate (BBP) | 85-68-7 | ND | | | | 1000 |
| Di-(2-ethylhexyl) phthalate (DEHP) | 117-81-7 | ND | | | | 1000 |
| Diisononyl phthalate (DINP) | 28553-12-0 68515-48-0 | ND | | | | 1000 |
| Diisodecyl phthalate (DIDP) | 26761-40-0 68515-49-1 | ND | | | | 1000 |
| Di-n-hexyl phthalate (DHEXP / DnHP) | 84-75-3 | ND | | | | 1000 |
| Di-n-octyl phthalate (DNOP) | 117-84-0 | ND | | | | 1000 |
| Diethyl phthalate (DEP) | 84-66-2 | ND | | | | 1000 |
| Diisobutyl phthalate (DIBP) | 84-69-5 | ND | | | | 1000 |
| Dicyclohexyl phthalate (DCHP) | 84-61-7 | ND | | | | 1000 |
| Di-n-pentyl phthalate (DPENP/DnPP) | 131-18-0 | ND | | | | 1000 |
| Conclusion | | PASS | | | | |

Note:

mg/kg (Milligrams per kilogram) = 0.0001 % m/m (Percent by mass)

LT = Less than

ND = Not detected (Reporting Limit = 150 mg/kg)

Remark:

The specification is quoted from client's requirement.

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19 CFR 134.11, Country of Origin

| Specimen No. | 6 | | |
|-------------------|---------------------|------|--|
| Test | Observation Conclus | | |
| Country of Origin | Present on label | PASS | |

Uniform Packaging and Labeling Regulation

| Specimen No. | 6 | | |
|----------------------------------|--|------------|--|
| Test | Observation | Conclusion | |
| Declaration of Identity | The packaging contains the declaration of identity | PASS | |
| Declaration of Responsibility | The packaging contains the declaration of responsibility | PASS | |



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Marking of Imported Goods Order, (C.R.C., c.535), Country of Origin

| Specimen No. | 6 | | |
|--------------|------------------|------------|--|
| Section | Requirement | Conclusion | |
| 2 | Present on label | PASS | |

Charter of French Language, (R.S.Q., c.C-11), Province of Quebec Labeling

| Specimen No. | 6 | |
|--------------|-----------------|------------|
| Clause | Test | Conclusion |
| c.C-11 | French Labeling | PASS |

Consumer Packaging and Labeling Act (R.S., 1985, c. C-38)

| Specimen No. | 6 | | |
|--------------|------------------------|------|--|
| Section | Requirement Conclusion | | |
| 10 | Place of Manufacture | PASS | |



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Textile Labeling Act and Textile Labelling and Advertising Regulations- Labeling Review

Test Method: R.S.C., 1985, c. T-10& C.R.C., c. 1551, Visual Check.

| Specimen No. | 6 | |
|--|---|---|
| Test Parameters | Observation | Result |
| 1.Fibre Content | | |
| Every fibre which is present in an amount of 5 percent or more by mass must be declared on the label using its generic name. Exceptions apply where the article contains unknown or undetermined fibres. Additional requirements apply when reclaimed fibres are present. And if the textile article contains trimming or findings other labelling requirements or alternatives exist. | Comply with the requirement | Pass |
| Every fibre which is present in an amount of less than 5 percent by mass must be declared on the label using its generic name or the term, "other fibre". Special exceptions to this requirement exist for elastic yarns, reinforcement yarns and ornamentation. | N/A | N/A |
| In conjunction with the generic name, the amount of each fibre must be declared on the label as a percentage of the total fibre mass of the article or its components | Comply with the requirement | Pass |
| If the textile article consists of parts or sections differing in fibre content, each part or section must be declared on the label in a sectional disclosure. Sectional disclosures are also required for paddings or fillings, such as those used in pillows for beds or those added for warmth, linings and interlinings, as well as for carpets, fabric supported foams and pile, coated or impregnated fabrics. | N/A | N/A |
| 2. Bilingual Requirement | | |
| All fibre content information on the label must be bilingual, except in areas where only one official language is used in consumer transactions | Comply with the requirement | Pass |
| 3. Dealer Identity | | |
| The dealer identity (business name and address) must be displayed on the label. Alternatively, a dealer in Canada may use a CA identification number. | Comply with the requirement | Pass Section Testing |
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6 Specimen No. Observation **Test Parameters** Result 4. Country Of Origin If the article or any fabric or fibre therein is imported, Country of Comply with the Pass origin must be displayed on the label. requirement 5. Form And Application Of Labels The form of a label must ensure that the information contained Comply with the on the label is factual, legible and accessible to the prospective Pass requirement consumer at the time of purchase. Depending on the type of article being labelled, either a permanent or non-permanent label must be applied to a consumer textile article. Special requirements exist for Comply with the prepackaged articles and labelling alternatives exist for home-Pass requirement crafted articles. Exceptions to this requirement exist for custommade articles, such as a tailored suit or a carpet cut to the customer's specification. PASS Conclusion

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Color Fastness to Crocking

Test Method: AATCC 8-2016

| Specimen No. | 6-Shell | 6-Lining | 6-Side mesh | Client's |
|--------------|-------------------|-------------------|-------------------|------------------------|
| ltems | Result (Grade) | Result (Grade) | Result (Grade) | requirement (Grade) |
| Dry staining | 4.5 | 4.5 | 4.5 | Min. 4.0 |
| Wet staining | 4.5 | 4.5 | 4.5 | Min. 2.5 |
| Conclusion | PASS | PASS | PASS | - |

| Specimen No. | 6-Tape | Client's |
|--------------|-------------------|------------------------|
| ltems | Result (Grade) | requirement (Grade) |
| Dry staining | 4.0 | Min. 4.0 |
| Wet staining | 4.5 | Min. 2.5 |
| Conclusion | PASS | - |

Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.





Color Fastness to Water

Test Method: AATCC 107-2013

| Specimen No. | 6-Shell | 6-Lining | 6-Side mesh | Client's |
|-----------------------------------|-------------------|-------------------|-------------------|------------------------|
| Items | Result (Grade) | Result (Grade) | Result (Grade) | requirement (Grade) |
| Change in shade | 4.5 | 4.5 | 4.5 | Min. 4.0 |
| Staining on multi-fiber stripe | | | | |
| -Acetate | 4.5 | 4.0 | 4.5 | Min. 3.5 |
| -Cotton | 4.5 | 4.5 | 4.5 | Min. 3.5 |
| -Nylon | 4.5 | 3.5 | 4.5 | Min. 3.5 |
| -Polyester | 4.5 | 4.5 | 4.5 | Min. 3.5 |
| -Acrylic | 4.5 | 4.5 | 4.5 | Min. 3.5 |
| -Wool | 4.5 | 4.0 | 4.5 | Min. 3.5 |
| Conclusion | PASS | PASS | PASS | - |

| Specimen No. | 6-Tape | Client's |
|-----------------------------------|-------------------|------------------------|
| Items | Result (Grade) | requirement (Grade) |
| Change in shade | 4.5 | Min. 4.0 |
| Staining on multi-fiber stripe | | |
| -Acetate | 4.0 | Min. 3.5 |
| -Cotton | 4.0 | Min. 3.5 |
| -Nylon | 3.5 | Min. 3.5 |
| -Polyester | 4.0 | Min. 3.5 |
| -Acrylic | 4.0 | Min. 3.5 |
| -Wool | 4.0 | Min. 3.5 |
| Conclusion | PASS | - |

Remark: Grey scale rating is based on the 5-step of 1 to 5, where 1 is bad and 5 is good.





Color Fastness to Light

Test Method: AATCC 16.3-2014; Option 3; Xenon Arc Lamp.

| Specimen No. | 6-Shell | Client's |
|---------------------------------|-------------------|------------------------|
| ltems | Result (Grade) | requirement (Grade) |
| After 20 AFU Change in shade | 4.0 | Min. 4.0 |
| Conclusion | PASS | - |

Remarks: Grey scale rating is based on the 5-step of 1 to 5, where 1 is bad and 5 is good.



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Dimensions

Test Method: IHTM, Standard Measure;

| Specimen No. | 6 | | |
|--------------|--------------------------------|-------------------------|--|
| ltems | Result (inch) | Client's requirement | |
| Diameter | 10 ¹ / ₂ | | |
| Height | 20 ¹ / ₄ | N/A | |
| Conclusion | Information only | - | |

The capacity in liters for bag

Test Method: IHTM, Standard Measure;

| Specimen No. | 6 | |
|--------------|-------------------|-------------------------|
| Items | Result (liter) | Client's requirement |
| Capacity | 30.1 | N/A |
| Conclusion | Information only | - |



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Article Weight

Test Method: IHTM 010

| Specimen No. | 6 | Client's |
|--------------|------------------|-------------|
| Items | Result | requirement |
| (g/piece) | 563 | N/A |
| Conclusion | Information only | - |

Defects

Test Method: ASTM D3990 - 12(2016); Visual Examination

| Specimen No. | 6 | Requirement |
|--------------|-----------------|---|
| Item | Result | |
| Observation | No major defect | Visual examination to verify noticeable defects (such as missing components, obvious knitting /weaving defects, improper functioning component). |
| Conclusion | PASS | |





Workmanship

Test Method: IHTM; Visual Examination

| Specimen No. | 6 | Doguiromont |
|--------------|---------------------------|--|
| Item | Result | Requirement |
| Observation | No major poor workmanship | Visual examination to verify noticeable poor Workmanship (such as: Poor sewing: Broken seam Missing stitches or Skipped / Uneven /wave stitches or stitched holes on visible area. Insecure back stitches / Uneven stitch tension / Needle chewing Misaligned seam. Poor riveting metal eyelet or other metal parts Dirty / Glue/ Scratch / Wrinkle / Pen Mark / Oil Stain / Water Stain The inside hiding thread expose. Poor electro-plating or spraying on handle metal plate Obvious Scratched mark on extendable handle or metal plate Fabric , webbing band or strap getting discoloration |
| Conclusion | PASS | - |



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DETAILED RESULTS:

SOR/2016-194 and Method F01 Flammability of Textile Products

Test Method: CAN/CGSB-4.2 No.27.5-2008

| Specimen No. | 6-Shell | | | | |
|-------------------|---------------------------------|------------------|--------------------------------------|------------------|-------------------------|
| Preliminary Tests | <u>Fabric</u> <u>Surface</u> | | | | Face Length |
| | | Re | esult | | |
| Items | As Rec | eived | <u>After Dry-cle</u> Launde | | Client's requirement |
| | Flame Spread (sec.) | <u>Burn Code</u> | <u>Flame Spread</u> <u>(sec.)</u> | <u>Burn Code</u> | · |
| (1) | - | DNI | - | DNI | |
| (2) | - | DNI | - | DNI | |
| (3) | - | DNI | - | DNI | |
| (4) | - | DNI | - | DNI | |
| (5) | - | DNI | - | DNI | 2.5 |
| (6) | - | DNI | - | DNI | >3.5s |
| (7) | - | DNI | - | DNI | |
| (8) | - | DNI | - | DNI | |
| (9) | - | DNI | - | DNI | |
| (10) | - | DNI | - | DNI | |
| Conclusion | | | PASS | • | |

* Dry-cleaning / Laundering procedure is according to CAN/CGSB-4.2 No.30.3-94 & CAN/CGSB-4.2 No.58-2004; Machine wash at 50 $^\circ\!C$ and tumble dry on the normal setting.

Burn Code Description:

DNI

Did not ignite;

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SOR/2016-194 and Method F01 Flammability of Textile Products

Test Method: CAN/CGSB-4.2 No.27.5-2008

| Specimen No. | 6-Lining | | | | |
|-------------------|---------------------------------|------------------|--------------------------------------|------------------|-------------------------|
| Preliminary Tests | <u>Fabric</u> <u>Surface</u> | Smooth | Test Specime | n Direction | Face Length |
| | | Re | esult | | |
| Items | As Rec | eived | <u>After Dry-cle</u> Launde | - | Client's requirement |
| | Flame Spread (sec.) | <u>Burn Code</u> | <u>Flame Spread</u> <u>(sec.)</u> | <u>Burn Code</u> | · |
| (1) | 12.0 | BB | 11.4 | BB | |
| (2) | 11.7 | BB | 11.0 | BB | |
| (3) | 11.7 | BB | 10.7 | BB | >3.5s |
| (4) | 11.0 | BB | 11.9 | BB | ~3.35 |
| (5) | 12.3 | BB | 12.1 | BB | |
| (Avg.) | 11.7 | BB | 11.4 | BB | |
| Conclusion | | | PASS | | |

* Dry-cleaning / Laundering procedure is according to CAN/CGSB-4.2 No.30.3-94 & CAN/CGSB-4.2 No.58-2004; Machine wash at 50 $^{\circ}$ C and tumble dry on the normal setting.

BB = Base burns;



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SOR/2016-194 and Method F01 Flammability of Textile Products

Test Method: CAN/CGSB-4.2 No.27.5-2008

| Specimen No. | 6-Side mesh | | | | |
|-------------------|---|------------------|--------------------------------|------------------|-------------------------|
| Preliminary Tests | Fabric Smooth Test Specimen Direction | | | Face Length | |
| | | Re | esult | | |
| Items | As Rec | eived | <u>After Dry-cle</u> Launde | | Client's requirement |
| | Flame Spread (sec.) | <u>Burn Code</u> | Flame Spread (sec.) | <u>Burn Code</u> | |
| (1) | - | IBE | - | IBE | |
| (2) | - | IBE | - | IBE | |
| (3) | - | IBE | - | IBE | |
| (4) | - | IBE | - | IBE | |
| (5) | - | IBE | - | IBE | |
| (6) | - | IBE | - | IBE | >3.5s |
| (7) | - | IBE | - | IBE | |
| (8) | - | IBE | - | IBE | |
| (9) | - | IBE | - | IBE | |
| (10) | - | IBE | - | IBE | |
| Conclusion | | | PASS | | |

* Dry-cleaning / Laundering procedure is according to CAN/CGSB-4.2 No.30.3-94 & CAN/CGSB-4.2 No.58-2004; Machine wash at 50 $^{\circ}$ C and tumble dry on the normal setting.

Burn Code Description:

IBE

Ignited but extinguished;



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SOR/2016-194 and Method F01 Flammability of Textile Products

Test Method: CAN/CGSB-4.2 No.27.5-2008

| Specimen No. | 6-Inner mesh | | | | |
|-------------------|---------------------------------|------------------|--------------------------------------|------------------|-------------------------|
| Preliminary Tests | <u>Fabric</u> <u>Surface</u> | Smooth | Test Specime | n Direction | Face Length |
| | | Re | esult | | |
| Items | As Rec | eived | <u>After Dry-cle</u> Launde | - | Client's requirement |
| | Flame Spread (sec.) | <u>Burn Code</u> | <u>Flame Spread</u> <u>(sec.)</u> | <u>Burn Code</u> | |
| (1) | 16.9 | BB | 16.9 | BB | |
| (2) | 17.4 | BB | 16.2 | BB | |
| (3) | 17.8 | BB | 16.8 | BB | |
| (4) | 16.7 | BB | 17.6 | BB | >3.5s |
| (5) | 18.2 | BB | 17.9 | BB | |
| (Avg.) | 17.4 | BB | 17.1 | BB | |
| Conclusion | | | PASS | | |

* Dry-cleaning / Laundering procedure is according to CAN/CGSB-4.2 No.30.3-94 & CAN/CGSB-4.2 No.58-2004; Machine wash at 50 $^{\circ}$ C and tumble dry on the normal setting.

BB = Base burns;



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Fabric Weight Per Unit Area

Test Method: ASTM D3776/D3776M-09a(R2013),Option C;

| Specimen No. | 6-Shell | 6-Lining | Client's |
|--------------|------------------|------------------|-------------|
| Items | Result | Result | requirement |
| (g/m²) | 410 | 76.1 | N/A |
| (oz/yd²) | 12.1 | 2.24 | N/A |
| Conclusion | Information only | Information only | - |

Tensile Strength

Test Method: ASTM D5034-09(Reapproved 2013); Instron CRE - 1" Grab

| Specimen No. | 6-Shell | 6-Lining | Client's |
|--------------|-----------------|-----------------|----------------------|
| ltems | Result (lbf) | Result (lbf) | requirement (lbf) |
| Warp | 224.5 | 137.8 | Min. 25 |
| Weft | 193.5 | 110.9 | Min. 25 |
| Conclusion | PASS | PASS | - |



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Tearing Strength

Test Method: ASTM D1424-09(R2013) Elmendorf

| Specimen No. | 6-Shell | 6-Lining | Client's |
|-----------------|-----------------|-----------------|----------------------|
| ltems | Result (lbf) | Result (lbf) | requirement (lbf) |
| Warp yarns torn | >14.1 | 4.4 | Min. 1.5 |
| Weft yarns torn | >14.1 | 4.4 | Min. 1.5 |
| Conclusion | PASS | PASS | - |

Note:

- (1) Warp test test in which the warp yarns are torn.
- Weft test test in which the weft yarns are torn.
- (2) The maximum capacity of the tester is 14.1lbf

Bursting Strength

Test Method: ASTM D3786/D3786M-13; Mullen Bursting Tester

| Specimen No. | 6-Side mesh | Client's |
|-------------------|--------------------|-------------------------|
| Items | Result (P.S.I.) | requirement (P.S.I.) |
| Bursting Strength | 160 | Min. 40 |
| Conclusion | PASS | - |



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Seam Strength

Test Method: with reference to ASTM D 1683/D1683M-11a; Instron CRE

| Specimen No. | 6 | Client's |
|--------------|-----------------|----------------------|
| ltems | Result (lbf) | requirement (lbf) |
| Bottom seam | 176.2(S.T.B.) | Min. 25 |
| Conclusion | PASS | - |

Remarks: S.T.B. = Sewing Thread Breaks.



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Abrasion Resistance

Test Method: ASTM D4966-12^{ε1}, Option 1; Martindale Wear & Abrasion Tester; 12kPa Pressure

| Specimen No. | 6-Shell | Client's |
|--------------|------------------|-----------------------|
| Items | Result (rubs) | requirement (rubs) |
| End point | >10000 | 10000 |
| Conclusion | PASS | - |

Remarks: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

Pilling Resistance

Test Method: ASTM D3512/D3512M-16; After 30 min. tumbling in Random tumble Pilling Tester

| Specimen No. Items | 6-Shell Result | Client's requirement |
|-----------------------|-------------------|-------------------------|
| As received Rating | 4.5 | Min. 3.5 |
| Conclusion | PASS | - |

Remarks: Pilling Rating

- 5 No pilling
- 4 Slight pilling
- 3 Moderate pilling
- 2 Severe pilling
- 1 Very severe pilling



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Zipper Strength

Test Method: ASTM D2061-07(R2013); type: LM

| Specimen No. | 7-Silver zipper | | |
|--|--------------------------|-------------------------|--|
| Items | Result | Client's requirement | |
| Chain Crosswise Strength Test (Ibf) | 116.8(Elements separate) | Min. 80 | |
| Element Pull-Off Test (lbf) | 21.8(Elements pull off) | Min. 11 | |
| Element Slippage Test (lbf) | 21.8(Elements pull off) | Min. 9 | |
| Resistance to Pull-Off Slider Pull (Ibf) | 66.4(Puller Pull Out) | Min.35 | |
| Resistance to Twist of Pull and Slider Test Clockwise (lb. inch) Counter-Clockwise (lb. inch) | >6.0 >6.0 | Min.4 | |
| Conclusion | PASS | | |

Zipper Operability

Test Method: ASTM D2062-03(R2014)

| Specimen No. | 7- Silver zipper | |
|---------------------|------------------|-------------------------|
| Items | Result | Client's requirement |
| Chain opening (lbf) | 0.6 | Max. 2 |
| Chain closing (lbf) | 0.5 | Max. 2 |
| Conclusion | PASS | |

Remark: It is noted that a specific sampling plan is laid down per ASTM D2061-07(R2013) & ASTM D2062-03(R2014). The above results for Zipper Strength & Zipper Operability are drawn on the 6 of tested specimens, based on the request from the applicant.

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Zipper Strength

Test Method: ASTM D2061-07(R2013); type: LM

| Specimen No. | 8-Black nylon zipper | | |
|--|---------------------------|----------|--|
| Items | Result Client requirem | | |
| Chain Crosswise Strength Test (Ibf) | 202.2(Tape break) | Min. 175 | |
| Resistance to Pull-Off Slider Pull (Ibf) | 40.4(Puller pull out) | Min.35 | |
| Resistance to Twist of Pull and Slider Test Clockwise (Ib. inch) Counter-Clockwise (Ib. inch) | 4.1 4.2 | Min.4 | |
| Conclusion | PASS | | |

Zipper Operability

Test Method: ASTM D2062-03(R2014)

| Specimen No. | 8- Black nylon zipper | | | |
|---------------------|-----------------------|-------------------------|--|--|
| ltems | Result | Client's requirement | | |
| Chain opening (lbf) | 0.6 | Max. 2 | | |
| Chain closing (lbf) | 0.8 | Max. 2 | | |
| Conclusion | PASS | | | |

Remark: It is noted that a specific sampling plan is laid down per ASTM D2061-07(R2013) & ASTM D2062-03(R2014). The above results for Zipper Strength & Zipper Operability are drawn on the 4 of tested specimens, based on the request from the applicant.





Water Repellency-Spray Test

Test Method: AATCC 22-2014; Spray Test – Tested under controlled condition, water temperature: 27±1°C

| Specimen No. | | | | | |
|-----------------------|-------------|-------------|-------------|-------------------------|--|
| ltems | Result | | | Client's requirement | |
| items | Specimen 1# | Specimen 2# | Specimen 3# | | |
| As received Rating | 95 | 95 | 95 | Min. 90 | |
| Conclusion | PASS | | | - | |

| Items | Result | | | requirement |
|-----------------------|-------------|-------------|-------------|-------------|
| items | Specimen 1# | Specimen 2# | Specimen 3# | |
| As received Rating | 95 | 95 | 95 | Min. 90 |
| Conclusion | PASS | | | - |
| | | | | |

| | eceived ating | | 95 | 95 | 95 | Min. 90 |
|----------|------------------|-----------|------|----|----|---------|
| Cor | nclusion | | PASS | | - | |
| Remarks: | Spray | ay Rating | | | | |

- No sticking or wetting of specimen face 100
- 90 Slight random sticking or wetting of specimen face
- 80 Wetting of specimen face at spray points
- 70 Partial wetting of the specimen face beyond the spray points
- 50 Complete wetting of the entire specimen face beyond the spray points
- 0 Complete wetting of the entire face of the specimen

Water Resistance – Rain Test

Test Method: AATCC 35-2013; Rain Test-2ft head Pressure; 2-min impact

| Specimen No. | | 6-Shell | | | |
|--|-------------|-------------|-------------|---------|-------------------------|
| Itoms | Result | | | | Client's requirement |
| Items | Specimen 1# | Specimen 2# | Specimen 3# | Average | · |
| As received Weight of blotter gained (g) | 0.0 | 0.0 | 0.0 | 0.0 | Max 1.0g |
| Conclusion | | PASS | | | - |



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Fiber Content

Test Method: AATCC 20-2013

| Specimen No. | 6- Shell fabric* | | | |
|---------------|----------------------|--------|---------------------|--|
| ltems | Client's requirement | Result | Conclusion | |
| Polyester (%) | N/A | 100 | Information only | |

Remark: *: Exclusive of coating

Fiber Content

Test Method: AATCC 20-2013

| Specimen No. | 6-Lining | | |
|---------------|----------------------|--------|---------------------|
| ltems | Client's requirement | Result | Conclusion |
| Polyester (%) | N/A | 100 | Information only |



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DETAILED RESULTS:

Client's Requirement for Static Load Test

| Test Item | Test Method | Requirement | Conclusion |
|------------------|---|-------------|------------|
| Static Load test | Place the test load on the bag with 50lb for 2 hours. | No damage | PASS |



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Pages:

SPECIMEN DESCRIPTION:

| Specimen No. | Specimen Description | Location |
|--------------|--|------------------|
| 1 | Bright silver metal | Lobster clasp |
| 2 | Light silver metal | Zipper head |
| 3 | Light silver metal | Zipper teeth |
| 4 | Silver metal | Doroid |
| 5 | White foam | Filler |
| 6 | 32L round duffle with easy access storage and cross body strap bag | Finished product |
| 7 | Metal zipper | Metal zipper |
| 8 | Black nylon zipper | Nylon zipper |



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