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|-------------------------------|---|--------------------|-------------------|
| <b>Laboratory</b>             | <b>Bureau Veritas Consumer Products Services Lanka (Pvt.) Ltd., No. 570, Galle Road, Katubedda, Moratuwa, Sri Lanka</b> |                    |                   |
| <b>Accreditation Standard</b> | <b>ISO/IEC 17025: 2005</b>  |                    |                   |
| <b>Discipline</b>             | <b>Mechanical Testing</b>   | <b>Issue Date</b>  | <b>19.10.2014</b> |
| <b>Certificate Number</b>     | <b>T-3153</b>   | <b>Valid Until</b> | <b>18.10.2016</b> |
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| <b>S.No.</b>                | <b>Product / Material of Test</b> | <b>Specific Test Performed</b>   | <b>Test Method Specification against which tests are performed</b> | <b>Range of Testing / Limits of Detection</b>          |
|-----------------------------|-----------------------------------|--|--|--|
| <b>I. TEXTILE MATERIALS</b> |                                   |  |  |  |
| <b>1.</b>                   | <b>Textiles- Fabric/Garment</b>   | Tearing Strength of Fabrics by Falling-Pendulum Type (Elmendorf) Apparatus         | ASTM D 1424: 2009 (Reapproved 2013)<br>BS EN ISO 13937-1: 2000     | 2 N to 60 N<br>(0.4 to 13.0) lbs                       |
|                             |                                   | Tearing Strength of Fabrics by the Tongue (Single Rip) Procedure (C-R-E principle) | ASTM D 2261: 2013  | 10 N to 4.5 kN<br>(1 kg to 450 kg)<br>(2 lb to 900 lb) |
|                             |                                   | Breaking Strength (Grab Test)  | ASTM D 5034: 2009 (Reapproved 2013)<br>BS EN ISO 13934-2: 1999     | 50 N to 4500 N<br>(10 lbs to 900 lbs)                  |
|                             |                                   | Max. Force (Strip test)  | BS EN ISO 13934-1: 1999  | 50 N to 4500 N<br>(5 kg to 450 kg)                     |
|                             |                                   | Max. Force to Seam Rupture using the Grab Method                                   | BS EN ISO 13935-2: 2014  | 50 N to 4500 N<br>(5 kg to 450 kg)                     |
|                             |                                   | Failure in Sewn Seams of Woven Fabrics   | ASTM D 1683/D1683M-11a   | 50 N to 4500 N<br>(10 lb to 900 lb)                    |
|                             |                                   | Resistance to Slippage of Yarns in Woven Fabrics using a Standard Seam             | ASTM D 434: 1995<br>BS EN ISO 13936-1:2004                         | 10 N to 4000 N<br>(2 lb to 800 lb)                     |

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|              | <b>Textiles- Fabric/Garment</b>   | Warp (End) & Filling (Pick) Count of Woven Fabric                                     | ASTM D 3775: 2012  | (10 to 50)/ cm<br>(25 to 125)/ inch           |
|              |                                   | Fabric Count (Wales & Courses) of Knitted Fabric                                      | ASTM D 3887-96<br>(Re-approved 2008)                               | (10 to 50)/ cm<br>(25 to 125)/ inch           |
|              |                                   | Mass Per Unit Area (Weight) of Fabric   | ASTM D 3776:M-09a<br>(Re-approved 2013)<br>Option C and D          | (20 to 700) gsm                               |
|              |                                   | Pilling Resistance and Other Related Surface Changes (Random Tumble Pilling Tester)   | ASTM D 3512: 2010  | Grade 1 to 5                                  |
|              |                                   | Fabric propensity to surface fuzzing and to Pilling (Pilling box method)              | BS EN ISO 12945-1:2001   | Grade 1 to 5                                  |
|              |                                   | Fabric propensity to surface fuzzing and to pilling (Modified Martindale method)      | BS EN ISO 12945-2:2000   | Grade 1 to 5                                  |
|              |                                   | Abrasion resistance (Martindale method) Part – 2: Determination of Specimen breakdown | BS EN ISO 12947-2: 1999  | (100 to 60,000) Cycles                        |
|              |                                   | Stretch Properties of knitted Fabrics Having Low Power                                | ASTM D2594: 2004<br>(Re-approved 2012)                             | Upto 100%                                     |

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|              | <b>Textiles- Fabric/Garment</b>      | Stretch Properties of fabrics Woven from Stretch yarn  | ASTM D3107: 2007 (Re-approved 2011)   | Upto 100%                                     |
|              |                                      | Determination of the elasticity of fabrics. Strip tests  | BS EN 14704-1: 2005   | Upto 150%                                     |
|              |                                      | Bow and Skew in Woven and knitted Fabrics  | ASTM D 3882-08 (Re-approved 2012)   | Upto 45%                                      |
|              |                                      | Hydraulic Bursting Strength of knitted Goods and Non woven Fabrics (Diaphragm Bursting Strength Tester Method) | ASTM D 3786/<br>ASTM D 3786M: 2013  | 35 kPa to 1378 kPa (5 psi to 200 psi)         |
| <b>2.</b>    | <b>Textiles- Garment Accessories</b> | Strength Tests for Zippers   | ASTM D 2061: 2007 (Re-approved 2013)<br>BS 3084: 2006                               | 50 N to 4500 N (10 lb to 900 lb)              |
|              |                                      | Impact Resistance of Plastic Sew-through Flange Buttons  | ASTM D 5171: 2009a  | Qualitative                                   |
|              |                                      | Tension test in Buttons  | BS 4162: 1983 Clause 4.5.1 (Re-approved 2013)                                       | 10 N to 1000 N (1 kg to 100 kg)               |
|              |                                      | (i) Small parts test   | 16 CFR 1501-2012<br>ASTM F963-2011 (Clause 4.6)<br>EN 71 Part 1 :2011 Section – 8.2 | Qualitative                                   |

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|       | <b>Textiles- Garment Accessories</b> | (ii) Sharp points [under a force of 4.45 N (1pound)]  | 16 CFR 1500.48-2012<br>EN 71 Part 1 :2011 Section – 8.12                                    | Qualitative                            |
|       |                                      | (iii) Sharp edges [under a force of 8.9 N (2 pounds)] | 16 CFR 1500.49-2012<br>EN 71 Part 1 :2011 Section – 8.11                                    | Qualitative                            |
|       |                                      | iv) Torque test [upto 8 kgf-cm ]                      | 16 CFR 1500.50-2012<br>16 CFR 1500.51-53 (Part e): 2012<br>EN 71 Part 1 :2011 Section – 8.3 | Qualitative                            |
|       |                                      | (v) Tension test [upto 100 N]                         | 16 CFR 1500.50-2012<br>16 CFR 1500.51-53 (Part f): 2012<br>EN 71 Part 1 :2011 Section – 8.4 | Qualitative                            |
|       |                                      | Removal force of attached components                  | BS 7907:2007- Annex B   | 10 N to 2000 N<br>(1 kg to 200 kg)     |

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