



Report No: 24503-17  
Date in: 08/12/17  
Date out: 11/12/17

**Applicant:** Milestone Textiles  
**Address:** B-17, Suite # 1, Estate Avenue, S.I.T.E. Karachi.  
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Fax:  
**Attn:** Mr.Amir Nazar  
**CC:**  
**Submitted By:**

**Manufacturer:** Milestone Textiles  
**Buyer:** Milltex  
**Label:** Milltex  
**Buying Agent:** Milestone Textiles  
**Dye stuff:** Reactive  
**Fabric:** Fleece  
**Labeled fiber contents:** 52% Cotton 48% Polyester  
**Contracted fabric weight:** 300 GSM  
**Color/Design:** Forest Heather  
**Style name:** Design:Men`s Full Zip Hood  
**Style NO:** 780  
**PO NO:**  
**Department:**  
**Test NO:**  
**Protocol NO:**  
**Prev. Report NO:**  
**Vendor Reference NO:**  
**Sample Description:** Men`s Full Zip Hood  
**End Use:**  
**Vendor proposed Care instruction:**

**Country of origin:** Pakistan  
**Destination:**  
**Program:** Non-Wash  
**Size:**  
**Season:**

**Ali Ashraf**  
Manager Technical



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**Test Conducted:****1. Dimensional change of garment after home laundering (AATCC 150 - 2012, 3 wash cycles)**

Machine wash warm ( 41±3°C ) at normal cycle, water level 18±1 gallon, washing load 1.8 kg.  
 Tumble dry low.

	<u>BEFORE WASH(cm)</u>	<u>AFTER WASH(cm)</u>	<u>SHRINKAGE %</u>
Front Body Length	74.8	72.6	-2.94
Centre Back Length	74.0	71.5	-3.38
Across Shoulder	55.0	54.3	-1.27
Chest	122.8	122.8	0.00
Bottom	105.0	101.4	-3.43
C B Sleeve Length	91.2	88.3	-3.18

Note: Minus sign (-) for Shrinkage & plus sign (+) for Growth.

**2. Mass per unit area (weight) (ASTM D 3776-2013)**

G/SQ. M 294.00

**3. Garment twist resulting from automatic home laundering (AATCC 179 - 2012)**

Twisting 0.00

**4. Appearance after Wash of Garment (AATCC 150 - 2012)**

Color Change 4.5  
 Appearance No fuzz formation  
 No puckering  
 No seam open  
 No stitch broken  
 No pilling (Class 5.0)  
 Draw cord,zip,neck tape,main label& care label stability satisfactory

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(ASTMD 3887)

Wales per inch 32  
Courses per inch 28**6. Formaldehyde(Qualitative analysis)**

(AATCC 94: 2007)

Formaldehyde Spot Test Negative

**7. Color fastness to non-chlorine bleach**

(AATCC IS-001)

	<u>Spot</u>	<u>Soaking</u>
Color Change	4.5	4.5

**8. Colorfastness to Light - 20 hours Exposure**

(AATCC 16.3 - 2012)

Xenon Arc Lamp

Color change 4.5

**9. Colorfastness to crocking**

(AATCC 8 - 2013)

Wet (Color Stain) 3.5  
Dry (Color Stain) 4.5



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**Test Conducted:**

**10. Colorfastness to Laundering, Home (AATCC 150-2012)**  
(Color change after 3Home Launderings & Staining after 1Home Laundering)

Color Change	4.5
Staining On:	
Acetate	4.5
Cotton	4.5
Nylon	4.5
Polyester	4.5
Acrylic	4.5
Wool	4.5

**11. Colorfastness to perspiration (AATCC 15 - 2013)**

Color Change	4.5
Staining On:	
Acetate	4.5
Cotton	4.5
Nylon 6.6	4.5
Polyester	4.5
Acrylic	4.5
Wool	4.5

Evaluated with AATCC gray scale for color change and staining.

**Color fastness rating**

- 5-0 Negligible or no change or staining
- 4-0 Slightly changed or stained
- 3-0 Noticeably changed or stained
- 2-0 Considerably changed or stained
- 1-0 Much changed or stained



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### Test Conducted:

#### 12. Flammability of Apparel & Clothing Textile

(16 CFR 1610, Original & after Drycleaning/washing)

Sample description: Mens Full Zip Hood  
Direction to be tested: Raised side

	<u>Time of flame spread (s)</u>	<u>Original Burning Code</u>	<u>Time of flame spread (s)</u>	<u>Dryclean/wash Burning Code</u>
Specimen 1	30.6	SFBBpoi	25.6	SFBBpoi
Specimen 2	30.9	SFBBpoi	24.4	SFBBpoi
Specimen 3	33.4	SFBBpoi	26.3	SFBBpoi
Specimen 4	31.5	SFBBpoi	26.7	SFBBpoi
Specimen 5	32.7	SFBBpoi	25.0	SFBBpoi
Average	31.8	SFBBpoi	25.6	SFBBpoi
Classification:	Class 1			



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DNI Did not ignite (no time) IBE Ignite, but extinguished (no time)  
 ---Sec. Actual burn time measured and recorded by the timing in 0.0 seconds  
 SF uc Surface flash, under stop thread, but does not break thread (no time)  
 SF pw Surface flash, part way; does not break thread (no time)  
 SF poi Surface flash, at the point of impingement only (no time)  
 ---Sec. Actual burn time measured and recorded by the timing device in 0.0 seconds.  
 SF Time (sec.), surface flash only, no damage to the base fabric  
 SFBB Time (sec.), Surface flash base burn starting at places other than the  
 point of impingement as a result of surface flash  
 SFBBpoi Time (sec.), surface flash base burn starting at the point of impingement

Classification: Plain Surface Raised Fiber Surface  
 Class 1 Average burn time >3.5s Average burn time > 7.0s OR  
 Average burn time 0-7s with no base burn(SF)  
 Class 2 N/A Average burn time 4-7s with base burn(SFBB)  
 Class 3 Average burn time >3.5s Average burn time <4-0s with base burn(SFBB)

**Digital Image of Sample**



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