



Report No: 24501-17  
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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**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:** 55% Cotton, 45% Polyester  
**Contracted fabric weight:** 340 GSM  
**Color/Design:** Black  
**Style name:** Design: Men's Pullover Hood  
**Style NO:** 777  
**PO NO:**  
**Department:**  
**Test NO:**  
**Protocol NO:**  
**Prev. Report NO:**  
**Vendor Reference NO:**  
**Sample Description:** Men's Pullover 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	71.9	68.4	-4.87
Centre Back Length	72.1	68.8	-4.58
Across Shoulder	47.5	47.2	-0.63
Chest	114.6	113.6	-0.87
Bottom	90.0	86.0	-4.44
C B Sleeve Length	86.0	81.7	-5.00

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

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

G / SQ. M 343.00

**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  
 Cross Staining 4.5 (Off white neck tape & draw cord)  
 Appearance No fuzz formation  
 No puckering  
 No seam open  
 No stitch broken  
 Slight pilling observed (Class 4.5)  
 Draw cord, neck tape, eyelet, main label & care label stability satisfactory

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(ASTMD 3887)

Wales per inch 27  
Courses per inch 26**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) 2.5  
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 Pullover 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	38.2	SFBBpoi	37.5	SFBBpoi
Specimen 2	36.0	SFBBpoi	36.0	SFBBpoi
Specimen 3	40.4	SFBBpoi	36.8	SFBBpoi
Specimen 4	39.8	SFBBpoi	38.2	SFBBpoi
Specimen 5	36.5	SFBBpoi	38.4	SFBBpoi
Average	38.1	SFBBpoi	37.3	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)

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**Digital Image of Sample**

