



Report No: 24489-17
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: Miltex
Label: Milltex
Buying Agent: Milestone Textiles
Dye stuff: Reactive
Fabric: Fleece
Labeled fiber contents: 70% Cotton 30% Polyester
Contracted fabric weight: 275 GSM
Color/Design: Maroon
Style name: Design:Youth Pullover Hood
Style NO: 557
PO NO:
Department:
Test NO:
Protocol NO:
Prev. Report NO:
Vendor Reference NO:
Sample Description: Youth Pullover Hood
End Use:
Vendor proposed Care instruction:

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

Ali Ashraf
Manager Technical

Report NO: 24489-17
Color/Design: Maroon**Test Conducted:**

1. **Dimensional change of garment after home laundering** (AATCC 150 - 2012, 3 wash cycles)
Machine wash warm ($41 \pm 0.5^\circ\text{C}$) at normal cycle, water level 18 ± 1 gallon, washing load 1.8 kg. Tumble dry low.

	<u>BEFORE</u> <u>WASH(cm)</u>	<u>AFTER</u> <u>WASH(cm)</u>	<u>SHRINKAGE</u> <u>%</u>
Front Body Length	65.0	64.3	-1.08
Centre Back Length	64.1	64.0	-0.16
Across Shoulder	44.7	44.2	-1.12
Chest	95.4	95.2	-0.21
Bottom	88.0	85.0	-3.41
C B Sleeve Length	72.2	70.3	-2.63

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

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

G/SQ. M 285.00

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

Twisting 3.86 %

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

Color Change 4.5
Appearance No puckering
No seam open
No stitch broken
Slight pilling observed (Class 4.5)
Main label & care label stability satisfactory

Report NO: 24489-17
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(ASTMD 3887)

Wales per inch 25
Courses per inch 25**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 4.0

9. Colorfastness to crocking

(AATCC 8 - 2013)

Wet (Color Stain) 3.0
Dry (Color Stain) 4.5



Report NO: 24489-17
Color/Design: Maroon

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	3.5
Nylon 6.6	4.0
Polyester	4.5
Acrylic	4.5
Wool	4.0



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Test Conducted:

12. Flammability of Apparel & Clothing Textile

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

Sample description: Youth 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	44.7	SFBBpoi	32.4	SFBBpoi
Specimen 2	44.2	SFBBpoi	29.6	SFBBpoi
Specimen 3	45.9	SFBBpoi	31.7	SFBBpoi
Specimen 4	44.8	SFBBpoi	31.8	SFBBpoi
Specimen 5	47.4	SFBBpoi	33.5	SFBBpoi
Average	45.4	SFBBpoi	31.8	SFBBpoi
Classification:	Class 1			



TEST REPORT

Report NO: 24489-17

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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)

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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Digital Image of Sample

