



# TEST REPORT

**Technical Report:** (6614)106-0400

May 8, 2014

Date Received: April 16, 2014

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Zhao Jian

**Et Textile Technology Co Ltd**

Science & Innovation Park, No.391 East Tianyuan Road, Jiangning District, Nanjing, Jiangsu

**Sample Description:** Silver reflective tape  
A. Silver grey  
**H&M Order Number:** /  
**Supplier:** Et Textile Technology Co Ltd  
**Form No.:** /  
**Factory Unit:** /  
**Date of Testing:** April 16, 2014 to May 8, 2014  
**Number of Working Days:** 16  
**Priority:** REGULAR

## SUMMARY OF TEST RESULTS

| TEST REQUESTED | CONCLUSION | REMARK               |
|----------------|------------|----------------------|
| Reflector Test | -          | See Result in Page 3 |

## REMARK

If there are questions or concerns on this report, please contact the following persons:

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PREPARED  
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**Photo of the Submitted Sample**



## TEST RESULT

|                                                                                                                                                     |  |                                                                                                                   |  |                   |  |           |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------|--|-------------------|--|-----------|--|
| Sample Description:                                                                                                                                 |  | A0: Silver reflectore fabric before washing                                                                       |  | Lab Reference No: |  | 194871-01 |  |
| Test Method / Standard:                                                                                                                             |  | High-visibility clothing and accessories: Retroreflection (new condition): DIN EN 13356, CIE-Publication Nr. 54.2 |  |                   |  |           |  |
| Test Location:                                                                                                                                      |  | Parameter has been subcontracted to an accredited laboratory.                                                     |  |                   |  |           |  |
| Parameter                                                                                                                                           |  | Limit                                                                                                             |  | Result            |  | Rating    |  |
| Observation angle 0.2° / illumination angle +5° / specific reflection value epsilon 0°                                                              |  | ≥ 110 cd/(lx*qm)                                                                                                  |  | 471 cd/(lx*qm)    |  | -         |  |
| Observation angle 0.33° / illumination angle +5° / specific reflection value epsilon 0°                                                             |  | ≥ 80 cd/(lx*qm)                                                                                                   |  | 337 cd/(lx*qm)    |  |           |  |
| Observation angle 1.5° / illumination angle +5° / specific reflection value epsilon 0°                                                              |  | ≥ 4 cd/(lx*qm)                                                                                                    |  | 26.9 cd/(lx*qm)   |  |           |  |
| Observation angle 0.2° / illumination angle +20° / specific reflection value epsilon 0°                                                             |  | ≥ 80 cd/(lx*qm)                                                                                                   |  | 511 cd/(lx*qm)    |  |           |  |
| Observation angle 0.33° / illumination angle +20° / specific reflection value epsilon 0°                                                            |  | ≥ 60 cd/(lx*qm)                                                                                                   |  | 363 cd/(lx*qm)    |  |           |  |
| Observation angle 1.5° / illumination angle +20° / specific reflection value epsilon 0°                                                             |  | ≥ 3 cd/(lx*qm)                                                                                                    |  | 24.6 cd/(lx*qm)   |  |           |  |
| Remark: CIL value R = 400 mcd/ lx in all directions around the person at alpha = 0,33°, beta = 5° would be met by approx. 12 cm² piece of material. |  |                                                                                                                   |  |                   |  |           |  |

|                                                                                        |  |                                                                                                                   |  |                           |  |                  |  |
|----------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------|--|---------------------------|--|------------------|--|
| Sample Description:                                                                    |  | B0: Silver reflector fabric after 5 times washed                                                                  |  | Lab Reference No:         |  | 194871-02        |  |
| Test Method / Standard:                                                                |  | Fivefold care procedure domestic washing and drying: DIN EN ISO 6330, 5077                                        |  |                           |  |                  |  |
| Test Location:                                                                         |  | Parameter has been analyzed at BVCPs laboratory Hamburg.                                                          |  |                           |  |                  |  |
| Parameter                                                                              |  | Limit                                                                                                             |  | Result                    |  | Rating           |  |
| Washing temperature                                                                    |  |                                                                                                                   |  | 40°C                      |  | No Specification |  |
| Type of washing                                                                        |  |                                                                                                                   |  | reduced mechanical action |  | No Specification |  |
| Type of detergent                                                                      |  |                                                                                                                   |  | mild detergent            |  | No Specification |  |
| Number of washing procedures                                                           |  |                                                                                                                   |  | 5                         |  | No Specification |  |
| Test Method / Standard:                                                                |  | High-visibility clothing and accessories: Retroreflection (new condition): DIN EN 13356, CIE-Publication Nr. 54.2 |  |                           |  |                  |  |
| Test Location:                                                                         |  | Parameter has been subcontracted to an accredited laboratory.                                                     |  |                           |  |                  |  |
| Parameter                                                                              |  | Limit                                                                                                             |  | Result                    |  | Rating           |  |
| Observation angle 0.2° / illumination angle +5° / specific reflection value epsilon 0° |  | ≥ 110 cd/(lx*qm)                                                                                                  |  | 487 cd/(lx*qm)            |  | -                |  |
| Remark: Retro-reflective value R' after test exposure Washing                          |  |                                                                                                                   |  |                           |  |                  |  |

END