CECEP(DAZHOU) NEW MATERIAL CO.,LTD
GROUPS 6 AND 7, ZHONGFENG VILLAGE, BINLANG TOWNSHIP, HIGH-TECH ZONE, DAZHOU, SICHUAN

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description	:	(A)Flammable Reflective tape
Sample Color	:	(A)bright silver
Composition	:	(A)100%cotton
Model No.	:	LC02
Order No.	:	CQP26-003190
Test Performed	:	Selected test(s) as requested by applicant
Sample Receiving Date	:	Mar 25, 2026 & Apr 07, 2026(Confirm Date)
Testing Period	:	Apr 07, 2026 - Apr 22, 2026
Test Result(s)	:	Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

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High-visibility clothing - Test methods and requirements (EN ISO 20471:2013+A1:2016)

Conclusion	A	Remark
Clause 6.1 Retroreflection for Retroreflective Material	PASS	
Clause 6.2 Retroreflection after Abrasion	PASS	
Clause 6.2 Retroreflection after Flexing	PASS	
Clause 6.2 Retroreflection After Folding At Cold Temperatures	PASS	
Clause 6.2 Retroreflection After Temperature Variation	PASS	
Clause 6.2 Retroreflection Under The Influence Of Rainfall	PASS	
Clause 6.2 Retroreflection After Dry cleaning	PASS	

Remark(s) : PASS=Meet General Requirement

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Nanjing Branch

Betsy Yu (Account Executive)

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Test Result

High-visibility clothing - Test methods and requirements

EN ISO 20471:2013+A1:2016

Clause 6.1 Retroreflection for Retroreflective Material (For EN ISO 20471)
(EN ISO 20471:2013+A1: 2016 Clause 7.3)

Sample_A__

Separate Performance Retroreflective Material

Entrance Angle	Observation Angle	Measured value (cd/(lx. m²))		Orientation Sensitive	Minimum Requirement (cd/(lx. m²))			Result (Pass/Fail)
		0°	90°		Orientation Sensitive		Non-Orientation Sensitive	
5°	12′	484	484	No	330	247.5	330	**Pass**
	20′	311	311	No	250	187.5	250	**Pass**
	1°	56.3	60.1	No	25	18.75	25	**Pass**
	1°30′	17.9	19.7	No	10	7.5	10	**Pass**
20°	12′	455	436	No	290	217.5	290	**Pass**
	20′	294	288	No	200	150	200	**Pass**
	1°	59.9	61.8	No	15	11.25	15	**Pass**
	1°30′	16.6	18.7	No	7	5.25	7	**Pass**
30°	12′	429	422	No	180	135	180	**Pass**
	20′	280	280	No	170	127.5	170	**Pass**
	1°	65.2	59.8	No	12	9	12	**Pass**
	1°30′	19.4	18.4	No	5	3.75	5	**Pass**
40°	12′	387	402	No	65	48.75	65	**Pass**
	20′	260	274	No	60	45	60	**Pass**
	1°	56.5	49.6	No	10	7.5	10	**Pass**
	1°30′	19.1	17.5	No	4	3	4	**Pass**

Remark:

1. When measured at two rotation angles ε = 0° and ε = 90°,materials having coefficients of retroreflection that differ by more than 15% are defined as orientation sensitive.
2. Orientation-sensitive material shall comply with the minimum requirements for the coefficient of retroreflection stated in Table 4 of EN ISO 20471 at one of the two rotation angles. The coefficient of retroreflection shall be not less than 75% of the values stated in Table 4 (Minimum coefficient of retroreflection for separate performance retroreflective material) at the other rotation angle.

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Table 4 – Minimum coefficient of retroreflection in cd/(lx.m^2) for separate performance retroreflective material

Observation angle	Entrance angle β_1 (β_2 = 0)			
	5°	20°	30°	40°
12’	330	290	180	65
20’	250	200	170	60
1°	25	15	12	10
1°30’	10	7	5	4

Clause 6.2 Retroreflection after Abrasion
(Clause 7.3&7.4.1, ISO 12947-2:2016, Martindale Wear & Abrasion Tester: 9kPa Pressure, 5000cycles)
Sample(A)
Separate Performance Retroreflective Material

Entrance Angle	Observation Angle	Measured value (cd/(lx. m^2))		Orientation Sensitive	Minimum Requirement (cd/(lx. m^2))			Result (Pass/Fail)
		0°	90°		Orientation Sensitive		Non-orientation Sensitive	
5°	12′	468	464	No	100	75	100	Pass

Clause 6.2 Retroreflection after Flexing
(Clause 7.3&7.4.2, ISO 7854:1995, method A, 7500cycles)
Sample(A)
Separate Performance Retroreflective Material

Entrance Angle	Observation Angle	Measured value (cd/(lx. m^2))		Orientation Sensitive	Minimum Requirement (cd/(lx. m^2))			Result (Pass/Fail)
		0°	90°		Orientation Sensitive		Non-orientation Sensitive	
5°	12′	448	444	No	100	75	100	Pass

Clause 6.2 Retroreflection after Folding at cold temperatures
(Clause 7.3&7.4.3, ISO 4675:2017, (-20±2) °C)
Sample(A)
Separate Performance Retroreflective Material

Entrance Angle	Observation Angle	Measured value (cd/(lx. m^2))		Orientation Sensitive	Minimum Requirement (cd/(lx. m^2))			Result (Pass/Fail)
		0°	90°		Orientation Sensitive		Non-orientation Sensitive	
5°	12′	467	469	No	100	75	100	Pass

Clause 6.2 Retroreflection after Temperature Variation
(EN ISO 20471:2013+A1: 2016 Clause 7.3&7.4.4)
Sample(A)
Separate Performance Retroreflective Material

Entrance Angle	Observation Angle	Measured value (cd/(lx. m^2))		Orientation Sensitive	Minimum Requirement (cd/(lx. m^2))			Result (Pass/Fail)
		0°	90°		Orientation Sensitive		Non-orientation Sensitive	
5°	12′	486	483	No	100	75	100	Pass

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Clause 6.2 Retroreflection under the influence of rainfall
(EN ISO 20471:2013+A1: 2016 Clause 7.3&7.4.5&Annex C)
Sample(A)
Separate Performance Retroreflective Material

Entrance Angle	Observation Angle	Measured value (cd/(lx. m^2))		Minimum Requirement (cd/(lx. m^2))	Result (Pass/Fail)
		0°	90°		
5°	12′	344	325	100	Pass

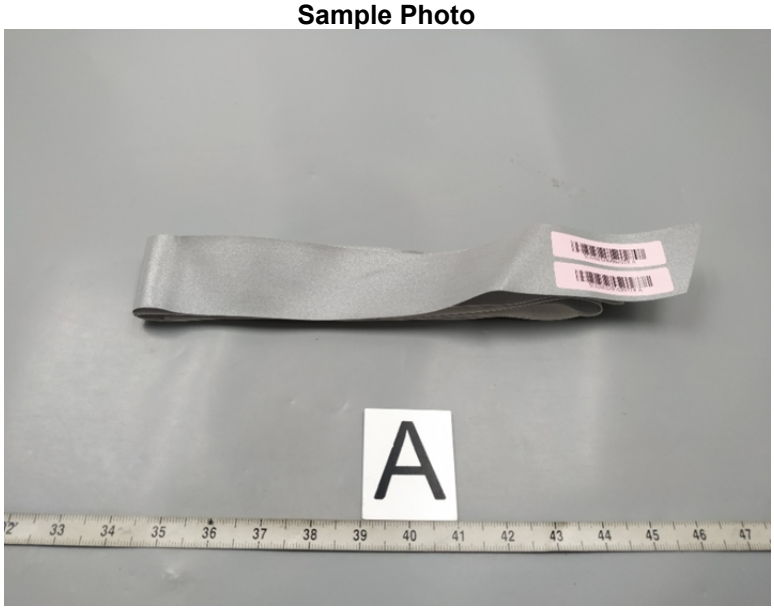
Clause 6.2 Retroreflection after Dry cleaning
(Clause 7.3&7.5.3, ISO 3175-2:2017:Procedure: Normal)
Sample(A)
After 25 dry cleaning

Separate Performance Retroreflective Material

Entrance Angle	Observation Angle	Measured value (cd/(lx. m^2))		Orientation Sensitive	Minimum Requirement (cd/(lx. m^2))			Result (Pass/Fail)
		0°	90°		Orientation Sensitive		Non-orientation Sensitive	
5°	12′	461	468	No	100	75	100	Pass

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Sample Photo



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