

**Third Party Certificate of Test
(ANSI/ISEA 107-2020)
COMBINED PERFORMANCE MATERIAL COMPLIANCE**

Submitted by: La Casa Del Reflectivo S.A.S
Name: Fluorescent Lime-Yellow Reflective Tape
Style #: PVC-HW1006050-FLY
Color Fl. Yellow-Green

Date: April 27, 2023

Test Report #: VCANBU.A102422A3

The submitted combined performance trim **MEETS** all performance requirements of retroreflective material **PRIOR** to test exposure per ANSI/ISEA 107-2020.

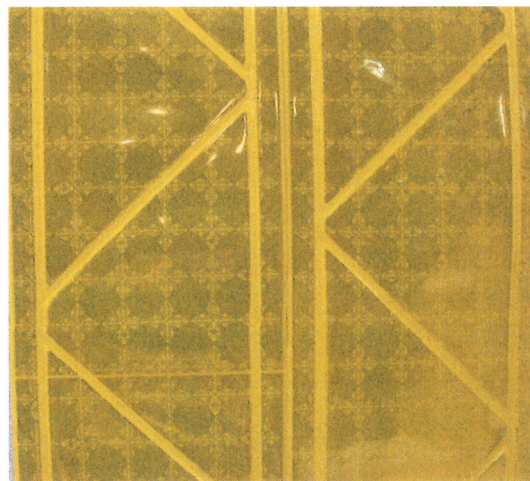
The submitted combined performance trim **MEETS** all performance requirements of retroreflective material **AFTER** test exposure per ANSI/ISEA 107-2020.

All of the above tests and evaluations were performed in accordance with ISO/IEC 17025 Quality Systems.

Certifications of background and other garment material characteristics are not implied by this certificate or by the original report.

Certificate authorized by:


Joseph Lin
Laboratory Manager



This certification applies to the particular sample tested and to the specific tests carried out as dated and detailed in the report referenced above. It does not signify any measure of approval, control, supervision, or surveillance by Vartest Laboratories Inc. to this or any related product. Unless otherwise specified, all compliance statements are simple acceptance.

ANSI/ISEA 107-2020 Combined Performance Test Results Summary

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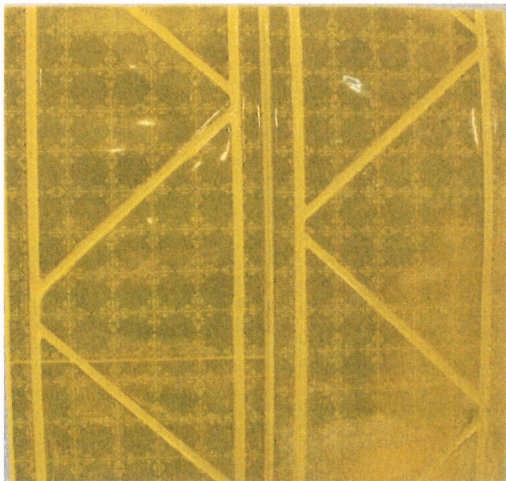
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The submitted material **MEETS** all Photometric performance requirements of combined performance material prior to test exposure per ANSI/ISEA 107-2020 clause 9.1 for minimum coefficient of retroreflection for retroreflective trim.

The submitted material **MEETS** all photometric performance requirements of combined performance material after test exposure per ANSI/ISEA 107-2020 clause 9.2 for minimum coefficient of retroreflection for retroreflective trim after abrasion, flexing, folding at cold temperatures, temperature variation, washing per ISO 6330 6N, F (Tumble Dry @ 50°C) (25 cycles, 50 cycles, 75 cycles, 100 cycles), and rainfall.

Retroreflective Material

Retroreflective, Performance, Initial	Passed
Abrasion.....	Passed
Flexing	Passed
Folding at Cold Temperatures	Passed
Exposure to Temperature Variation.....	Passed
Washing Per ISO 6330 6N, F (Tumble Dry @ 50°C) (25X, 50X, 75X, 100X).....	Passed
Retroreflective Performance in Rainfall	Passed



Signed For The Company By

Joseph Lin
Laboratory Manager



ISO/IEC 17025 Third Party Test Report

DATE : April 27, 2023

FILE: VCANBU.A102422A3

CLIENT: La Casa Del Reflectivo S.A.S
Calle 38 A sur. 74-78
Bogota, Colombia

ATTN: Johana Bi

SAMPLE IDENTIFIED BY CLIENT AS:

Combined Performance Tape Submitted
Per ANSI/ISEA 107-2020 Specification
Name: Fluorescent Lime-Yellow Reflective Tape
Style #: PVC-HW1006050-FLY
Color Fl. Yellow-Green

TEST PROCEDURES:

TEST RESULTS:

Retroreflective Material Testing Report

PHOTOMETRIC PERFORMANCE:

Take Measurements at $\epsilon_1 = 0^\circ$ and $\epsilon_2 = 90^\circ$.					
Record maximum value on left side of test result column and the other value on right side of test result column.					
ANSI/ISEA 107 REQUIREMENT Section 9.1, Table 4			Test Result cd/(lx.m ²)		Pass/Fail
Observation Angle	Entrance Angle	Minimum cd/(lx.m ²)			
12' (0.2°)	5°	330 / 248	580	369	Pass
	20°	290 / 218	471	335	Pass
	30°	180 / 135	345	259	Pass
	40°	65 / 47	248	193	Pass
20' (0.33°)	5°	250 / 188	394	205	Pass
	20°	200 / 150	309	187	Pass
	30°	170 / 128	229	151	Pass
	40°	60 / 45	186	137	Pass
1.0°	5°	25 / 18.8	134	82.5	Pass
	20°	15 / 11.3	112	77.6	Pass
	30°	12 / 9	53.8	39.1	Pass
	40°	10 / 7.5	34.1	26.8	Pass
1.5°	5°	10 / 7.5	34.3	24.3	Pass
	20°	7 / 5.25	34.0	20.4	Pass
	30°	5 / 3.75	23.6	14.4	Pass
	40°	4 / 3	17.9	10.5	Pass

ISO/IEC 17025 Third Party Test Report

FILE: VCANBU.A102422A3

SAMPLE IDENTIFIED BY CLIENT AS:

Combined Performance Tape Submitted
Per ANSI/ISEA 107-2020 Specification
Name: Fluorescent Lime-Yellow Reflective Tape
Style #: PVC-HW1006050-FLY
Color Fl. Yellow-Green

Retroreflective Material Testing Report


PHYSICAL PERFORMANCE:

Take Measurements at $\epsilon_1 = 0^\circ$ and $\epsilon_2 = 90^\circ$.				
Test	Section	ANSI/ISEA 107 Requirement	Test Result	Pass/Fail
Retroreflection, after abrasion	9.2, 10.4.1	$R_A (0.2^\circ/5^\circ) > 100 \text{ cd}/(\text{lx.m}^2)$ at ϵ_1 $R_A (0.2^\circ/5^\circ) > 75 \text{ cd}/(\text{lx.m}^2)$ at ϵ_2	ϵ_1 : 403	Pass
			ϵ_2 : 246	
Retroreflection, after flexing	9.2, 10.4.2	$R_A (0.2^\circ/5^\circ) > 100 \text{ cd}/(\text{lx.m}^2)$ at ϵ_1 $R_A (0.2^\circ/5^\circ) > 75 \text{ cd}/(\text{lx.m}^2)$ at ϵ_2	ϵ_1 : 462	Pass
			ϵ_2 : 331	
Retroreflection, after folding at cold temperatures Observation: No Cracks	9.2, 10.4.3	$R_A (0.2^\circ/5^\circ) > 100 \text{ cd}/(\text{lx.m}^2)$ at ϵ_1 $R_A (0.2^\circ/5^\circ) > 75 \text{ cd}/(\text{lx.m}^2)$ at ϵ_2	ϵ_1 : 514	Pass
			ϵ_2 : 369	
Retroreflection, after exposure to temperature variation	9.2, 10.4.4	$R_A (0.2^\circ/5^\circ) > 100 \text{ cd}/(\text{lx.m}^2)$ at ϵ_1 $R_A (0.2^\circ/5^\circ) > 75 \text{ cd}/(\text{lx.m}^2)$ at ϵ_2	ϵ_1 : 503	Pass
			ϵ_2 : 360	
Retroreflection, after washing ISO 6330-2012, 6N, F(Tumble Dry at 50°C), 25 cycles	9.2, 10.4.5.2	$R_A (0.2^\circ/5^\circ) > 100 \text{ cd}/(\text{lx.m}^2)$ at ϵ_1 $R_A (0.2^\circ/5^\circ) > 75 \text{ cd}/(\text{lx.m}^2)$ at ϵ_2	ϵ_1 : 310	Pass
			ϵ_2 : 245	
Retroreflection, after washing ISO 6330-2012, 6N, F(Tumble Dry at 50°C), 50 cycles	9.2, 10.4.5.2	$R_A (0.2^\circ/5^\circ) > 100 \text{ cd}/(\text{lx.m}^2)$ at ϵ_1 $R_A (0.2^\circ/5^\circ) > 75 \text{ cd}/(\text{lx.m}^2)$ at ϵ_2	ϵ_1 : 318	Pass
			ϵ_2 : 268	
Retroreflection, after washing ISO 6330-2012, 6N, F(Tumble Dry at 50°C), 75 cycles	9.2, 10.4.5.2	$R_A (0.2^\circ/5^\circ) > 100 \text{ cd}/(\text{lx.m}^2)$ at ϵ_1 $R_A (0.2^\circ/5^\circ) > 75 \text{ cd}/(\text{lx.m}^2)$ at ϵ_2	ϵ_1 : 288	Pass
			ϵ_2 : 243	
Retroreflection, after washing ISO 6330-2012, 6N, F(Tumble Dry at 50°C), 100 cycles	9.2, 10.4.5.2	$R_A (0.2^\circ/5^\circ) > 100 \text{ cd}/(\text{lx.m}^2)$ at ϵ_1 $R_A (0.2^\circ/5^\circ) > 75 \text{ cd}/(\text{lx.m}^2)$ at ϵ_2	ϵ_1 : 243	Pass
			ϵ_2 : 201	
Retroreflection, in rainfall	9.2, 10.4.6	$R_A (0.2^\circ/5^\circ) > 100 \text{ cd}/(\text{lx.m}^2)$ at ϵ_1 $R_A (0.2^\circ/5^\circ) > 75 \text{ cd}/(\text{lx.m}^2)$ at ϵ_2	ϵ_1 : 428	Pass
			ϵ_2 : 302	

Signed For The Company By


Joseph Lin
Laboratory Manager




Stacy Sadowy
Quality Assurance Manager

CF/04

