TOTAL REFLECTIVE® CINTA REFLECTIVA COMBINADA ALTA VISIBILIDAD (WEBBING)

DESCRIPCION

TOTAL REFLECTIVE® WEBBING Compuesta por una cinta fluorescente (Poliéster u Oxford), el cual lleva en el centro un material sellado con la cinta reflectiva TR450F adherida al calor, con micro esferas que garantizaran la retro reflectividad del material. La cinta cumple con los estándares de la Norma actual ANSI/ISEA 107-2015, certificada por laboratorio SATRA TECHNOLOGY CENTRE LTD reporte No SPC0259204/1726/2/2 14 de Septiembre 2017.

REFLECTIVIDAD

TOTAL REFLECTIVE® WEBBING La reflectividad promedio es de 500 cd/lux/m2 en un ángulo de observación de 0.20° y en un ángulo de entrada de +5° que supera el estándar mínimo de la Norma ANSI/ISEA 107-2015 que es 330 cd/lux/m2.

COLOR

TOTAL REFLECTIVE® WEBBING La cinta fluorescente tiene la misma visibilidad tanto en el día como en la noche, El color de la cinta del centro, en el día es Plata Metálico y el color en la noche es Blanco luminoso, como consecuencia de la reflectividad de las micro esferas cuando se exponen a un foco de luz.

TIPOS DE LAVADO

TOTAL REFLECTIVE® WEBBING De acuerdo a la **ISO 6330:2012 (6N, 60°C),** método de lavado domestico para textiles a una temperatura de 60°C, tiene una resistencia de 50 Ciclos de lavado doméstico.

USOS

TOTAL REFLECTIVE® WEBBING Se aplica en prendas reflectivas de seguridad personal, chalecos, overoles, etc.

INSTRUCCIONES DE APLICACION

TOTAL REFLECTIVE® WEBBING Se recomienda su aplicación en telas livianas, medianas y pesadas. Debe ser cosida con puntada a 2 mm de la orilla de la cinta.

RECOMENDACIONES

No dejar en remojo
No Pre-Lavar
No usar abrasivos cuando se limpie la cinta.
No usar blanqueadores con Cloro.
No usar cepillos para su limpieza.
No usar disolventes.

Indicaciones de Lavado de Prendas	
Lavado doméstico 50 ciclos a 60°C	
Plancha 110°C pasada suave	
Secadora Temperatura baja	
No utilizar Blanqueadores	

GARANTIA

Antes de utilizar la tela **TOTAL REFLECTIVE® WEBBING**, el comprador deberá determinar si el producto es adecuado para el uso requerido y de acuerdo a las especificaciones de esta ficha técnica. La única responsabilidad del vendedor será reemplazar la cantidad de producto que se pruebe defectuoso de fábrica. Total Reflective no será responsable de cualquier daño relacionado con el uso inadecuado o del uso de los productos. Para Mayor información consulte la hoja técnica y/o contacte a su asesor comercial.

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CERTIFICACIONES INTERNACIONALES

TR-450 F

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SATRA reference: SPC0259204/1726/2/2

Your reference: Tape 2

Date of report: 14 September 2017

Samples received: June 2017

Date(s) work completed: 14 September 2017

TECHNICAL REPORT

Subject: ANSI/ISEA 107-2015 Retro-reflectivity testing

Tape 2 – Silver Grade Heat Transfer Film TR-450F

Conditions of Issue:

This report may be forwarded to other parties provided that it is not changed in any way. It must not be published, for example by including it in advertisements, without the prior, written permission of SATRA.

Results given in this report refer only to the samples submitted for analysis and tested by SATRA. Comments are for guidance only.

A satisfactory test report in no way implies that the product tested is approved by SATRA and no warranty is given as to the performance of the product tested. SATRA shall not be liable for any subsequent loss or damage incurred by the client as a result of information supplied in the report.

Please note uncertainty of measurement has not been applied to the results in this report. SATRA uncertainty of measurement values are available on request.

Report signed by: Mark Gamble
Position: PPE Technologist
Department: Safety Products Centre

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TEST REQUIREMENTS

Retro-reflective materials shall comply with the requirements of ANSI/ISEA 107-2015, clause 9.1 Retro-reflective performance requirements prior to test exposure. Samples are tested at two rotation angles, designated x and y in this report. Retro-reflective materials shall comply with the minimum requirements for the coefficient of retro-reflection stated in Table 5, at one of the two rotation angles; and shall be not less than 75 % of the values stated in Table 5, at the other rotation angle. The minimum requirements for materials are indicated below.

Table 5 – Minimum coefficient of retro-reflection for retro-reflective or combined performance material cd/(lx·m ^{2})

Observation Angle	Entrance Angle			
	5°	20°	30°	40°
0.20° (12′)	330	290	180	65
0.33° (20′)	250	200	170	60
1.00°	25	15	12	10
1.50° (1°30′)	10	7	5	4

Retro-reflective Performance Requirements after Test Exposure - cd/(lx·m ^{2})

After test exposure, as indicated below, the coefficient of retro-reflection R_A, measured at observation angle (0.2 12′ and entrance angle 5 °, shall exceed 100 cd/lx/m ^{2} at one of the two orientations (x or y in this report) and shall be not less than 75 cd/lx/m ^{2} at the other orientation.

Test Exposure	Test Method
Abrasion	Section 10.4.1
Flexing	Section 10.4.2
Folding at cold temperatures	Section 10.4.3
Temperature variation	Section 10.4.4
Washing	Section 10.4.5.2
Dry-cleaning	Section 10.4.5.3
Wet performance	Section 10.4.6

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Date: 14 September 2017

WORK REQUESTED

Retro-reflective material, as described below, was submitted for testing and was measured according to CIE 54.2, and is reported here in the report format of ANSI/ISEA 107-2015.

CONCLUSIONS

Sample Reference	Standard/Clause ANSI/ISEA 107-2015		Result
Tape 2 separate performance retro-reflective material	Clause 9.1	Retro-reflective performance prior to test exposure	PASS
	Clause 9.2	Retro-reflective performance after test exposure	PASS
	Clause 9.2	Retro-reflective Wet Performance	PASS
	Clause 9.2	Retro-reflectivity after washing (ISO6330), 5 0 cycles, 60 ☒C	PASS

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Date: 14 September 2017

RESULTS

Material prior to test exposure – x orientation

Observation angle	Entrance angle							
	5°		20°		30°		40°	
12′	[330]	506	[290]	502	[180]	499	[65]	467
20′	[250]	308	[200]	303	[170]	296	[60]	289
1°	[25]	52.1	[15]	56.4	[12]	52.6	[10]	46.5
1° 30′	[10]	16.3	[7]	17.7	[5]	17.5	[4]	14.7

All measurements in cd/(lx·m ^{2}) Minimum requirements for material shown in [square brackets]

Material prior to test exposure – y orientation

Observation angle	Entrance angle							
	5°		20°		30°		40°	
12′	[330]	509	[290]	505	[180]	505	[65]	471
20′	[250]	308	[200]	304	[170]	298	[60]	292
1°	[25]	51.1	[15]	56.1	[12]	52.1	[10]	47.7
1° 30′	[10]	16.1	[7]	17.3	[5]	17.1	[4]	14.3

All measurements in cd/(lx·m ^{2}) Minimum requirements for material shown in [square brackets]

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RESULTS

ANSI/ISEA 107-2015 Clause	Pre-Treatment	Observation angle 12′, Entrance angle 5° x orientation cd/(lx·m ^{2})		
10.4.1	Abrasion	477		
10.4.2	Flexing	448		
10.4.3	Folding at cold temperatures	477		
10.4.4	Temperature variation	464		
10.4.6 ‡	Wet Performance	130		
10.4.5.2	Domestic Washing: 50 cycles	208		

Domestic washing to ISO 6330, (6N, 60 ☒C), with flat drying.

********** END OF REPORT **********

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