

SOCIEDAD IMPORTADORA MARITEX LIMITADA
El Salto 1979, Recoleta, Santiago-Chile

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

Sample Description : One sample of retroreflective material.

Buyer : MARITEX

Style No. : FSH101/FSH102

Order No. : /

Country Of Destination : CHILE

Sample Receiving Date : May 22, 2018

Test Performing Period : May 22, 2018- May 30, 2018

Test Performed : Selected tests as requested by applicant against Client's performance standard.

* * * *

Test Result(s) : Please refer to the next page(s).



Conclusion(s) :
High-visibility clothing – Test methods and requirements M

Remark(s) : M = Meet Client's Requirement
F = Below Client's Requirement
= No specified requirement

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Xiamen Branch

Lemon Ye

Lemon Ye
Account Executive



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Test Result:

The below test was conducted in SGS SH LAB.

High-visibility clothing – Test methods and requirements

(EN ISO 20471: 2013+A1: 2016)

Sections 6.1 and 7.3 Retroreflection for New Separate Performance Retroreflective Material

<u>Entrance Angle</u>	<u>Observation Angle</u>	<u>Measured value (cd/(lx. m²))</u>	<u>Orientation Sensitive</u>	<u>Minimum Requirement (cd/(lx. m²))</u>	<u>Result (Pass/Fail)</u>
5°	12'	399	No	330	Pass
	20'	288	No	250	Pass
	1°	35.3	No	25	Pass
	1°30'	18.7	No	10	Pass
20°	12'	395	No	290	Pass
	20'	283	No	200	Pass
	1°	35.0	No	15	Pass
	1°30'	17.1	No	7	Pass
30°	12'	367	No	180	Pass
	20'	265	No	170	Pass
	1°	34.7	No	12	Pass
	1°30'	17.8	No	5	Pass
40°	12'	297	No	65	Pass
	20'	231	No	60	Pass
	1°	27.6	No	10	Pass
	1°30'	21.1	No	4	Pass

(#)Remark:

1. When measured at two rotation angles $\epsilon = 0^\circ$ and $\epsilon = 90^\circ$, 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 ($\beta_2 = 0$)			
	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



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Sample Photo



*** End of Report ***

