

XM TEXTILES

ROOM 2403, ZHONGYI INTERNATIONAL BUSINESS BUILDING NO.1833, NORTH ZHONGSHAN ROAD,
PUTUO DISTRICT, SHANGHAI

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

Sample Description : Reflective tape: 100% nomex in yellow-silver(XM-7010 Corsica-N-BR-JL-001)

Proposed Care Instruction : -

Test Performed : Selected test(s) as requested by applicant

Sample Receiving Date : Jan 21, 2015

Testing Period : Jan 21, 2015 TO Feb 03, 2015

Test Result(s) : For further details, please refer to the following page(s).

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co. Ltd



May Chen (Account Executive)



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Test Result

***High-visibility clothing – Test methods and requirements (EN ISO 20471:2013)
Clauses 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</u>
5°	12'	364	No	330	Pass
	20'	301	No	250	Pass
	1°	30	No	25	
	1°30'	25	No	10	Pass
20°	12'	389	No	290	Pass
	20'	316	No	200	Pass
	1°	32	No	15	Pass
	1°30'	25	No	7	Pass
30°	12'	384	No	180	Pass
	20'	312	No	170	Pass
	1°	34	No	12	Pass
	1°30'	25	No	5	Pass
40°	12'	334	No	65	Pass
	20'	277	No	60	Pass
	1°	33	No	10	Pass
	1°30'	23	No	4	Pass



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Table 4 of EN ISO 20471– Minimum coefficient of retroreflection in cd/(lx m²) for separate performance retroreflective material

Observation angle	Entrance angle α_1 ($\alpha_2 = 0$)			
	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

Clauses 6.2, 7.3 and 7.5.2 Retroreflection after Washing

After 25 washes

Washing procedure: ISO 6330:2012 Procedure No. 9N; Using horizontal axis, front-loading type machine: Machine wash at 90 degree C with 2 kg total dry mass (type I (100 % cotton) ballast + specimen) and 'ECE' detergent + sodium perborate + TAED, tumble dry low less than 60 degree C

<u>Entrance Angle</u>	<u>Observation Angle</u>	<u>Measured value</u> (cd/(lx.m ²))	<u>Orientation-Sensitive</u>	<u>Minimum Requirement</u> (cd/(lx.m ²))	<u>Result</u>
5°	12'	240	No	100	Pass

* This test was carried out by SGS HK textile lab.

Sample Photo



*** End of Report ***



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