

Certificate of Test



For

Unitika Limited
4-1-3 Kyutaro-Machi
Chuo-ku
Osaka
Japan
541-8566

Our reference SPC0220607/1350/1/1
Date 6th February 2014

Product

Retro-reflective material referenced Unitika Sparklite MR-831S

Test Data

EN ISO 20471:2013 requirements clauses:-

6.1 Table 4	
Retro-reflective performance of new material	PASS
6.2 Table 6 – retro-reflective performance after test exposure	
Abrasion	PASS
Flexing	PASS
Folding at cold temperature	PASS
Temperature variation	PASS
Domestic washing at 60°C (ISO 6330 - 100 cycles)	PASS
Domestic washing at 92°C (ISO 6330 - 20 cycles)	PASS
Industrial washing at 75°C & 90°C tumble dry (ISO 15797 - 50 cycles)	PASS
Industrial washing at 75°C & finishing 160°C (ISO 15797 - 50 cycles)	PASS
Dry cleaning, normal (ISO 3175 - 50 cycles)	PASS
Influence of rainfall	PASS

Description

Retro-reflective separate performance material

Recommendations

The following test reports provide full details of test data:

SPC0200088/09, SPC0216971/1331/25/3, SPC0220607/1350/1/1.

Report date

6th Feb. 2014

Tests marked † fall outside the UKAS Accreditation Schedule for SATRA.
All interpretations are outside the scope of UKAS Accreditation and are based on SATRA experience.
This report is designed to indicate the performance of the sample tested by SATRA.
SATRA have not approved the on-going quality control. It is the responsibility of purchasers to satisfy themselves that other production batches perform similarly.

SIGNATURE

M Gamble
PPE Technologist
Safety Products Centre