

Certificate of Test



For Unitika Limited
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Chuo-ku
Osaka
Japan
541-8566

Our reference SPC0216971/1331/05
Date 4th November 2013

Product Retro-reflective material referenced Unitika Sparklite MR-3501S

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 @ 60°C (ISO 6330 - 80 cycles)	PASS
	Industrial washing, (ISO15797) 50 cycles, 75°C, with tumble drying at 90°C	PASS
	Industrial washing, (ISO15797) 50 cycles, 75°C, with cabinet finishing at 160°C	PASS
	Dry cleaning, normal (ISO 3175 - 50 normal cycles)	PASS
	Influence of rainfall	PASS

Description Retro-reflective separate performance material

Recommendations The following test reports provide full details of test data:

SPC0200088/2, Issue 1, SPC0202861/1213/2, SPC0209130/1245/2, Issue 2
SPC0216971/1331/05

Report date 4th Nov. 2013

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