

Certificate of Test



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

Our reference SPC0224473/1418
Date 10th June 2014

Product Retro-reflective material referenced Unitika Sparklite MR-3591S

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, (ISO 6330) - 25 cycles, 60°C & hot tumble dry	PASS
	Influence of rainfall	PASS
	EN469:2005	
	Clause 6.5, Annex B.3.1	PASS
	Clause 6.1, Annex B.3.2 - As received	PASS
	Clause 6.1, Annex B.3.2 - 25 cycles, 60°C & hot tumble dry	PASS
	ISO14116:2008	
	Index Value (as received)	PASS Index 3

Description Retro-reflective separate performance material

Recommendations The following test reports provide full details of test data:
SPC0216971/1331/09, SPC0224473/1418

Report date 10th Jun. 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 certificate 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