

Certificate of Test



For



Reference SPC0337333/2236/3
Date 15 February 2023

Product Retro-reflective Separate Performance Material – CSR5002A/CSR-1303-NM(CSR5002A)

Test Data	EN ISO 20471:2013+A1:2016	
6.1	Retro-reflective performance of new material	PASS
6.2	Retro-reflective performance after test exposure - Abrasion, flexing, folding at cold temperature, & temperature variation Under the influence of rainfall	PASS
6.2	Retro-reflectivity after washing (ISO6330:2012), 40 cycles, 60°C with normal heat tumble drying after each wash	PASS
6.2	Retro-reflectivity after dry cleaning (ISO3175-2:2018), 50 cycles, normal	PASS
	EN 14116:2015	
	Limited flame spread index, as new	Index 3
	Limited flame spread index after 50 cycles, 60°C with normal heat tumble drying after each wash	Index 3
	EN ISO 11611:2015	
6.7.2	Limited flame spread as new	
6.7.2	Limited flame spread after 50 cycles, 60°C with normal heat tumble drying after each wash	PASS
	EN ISO 11612:2015	
6.2.2	Heat resistance 180±5°C, 5 min, after washing (ISO6330:2012), 40 cycles, 60°C with normal heat tumble drying after each wash	See note 4 on report
6.3.2.4	Limited flame spread as new	PASS
6.3.2.4	Limited flame spread after 50 cycles, 60°C with normal heat tumble drying after each wash	PASS
	EN469:2020	
6.2.1.6	Heat resistance 180±5°C, 5 min, after washing (ISO6330:2012), 50 cycles, 60°C with normal heat tumble drying after each wash	See note 4 on report
6.2.1.1	Limited flame spread as new	PASS
6.2.1.1	Limited flame spread after 50 cycles, 60°C with normal heat tumble drying after each wash	PASS

Description Retro-reflective separate performance material

Recommendations The following test report provides full details of test data:
SPC0337333/2236/3

Report date	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.	SIGNATURE
15 Feb 2023	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.	J Darlow Team Leader Safety Products