

TEST REPORT

ORAFOL Europe GmbH
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Your Ref: Oralite 5310
Our ref: FE 590 (E)
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Tel: 012 428 6365
Date: 05 December 2014
Report No: 2330/ FE 590 (E)
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TESTING TO STANDARD SANS 1519-1: 2014 (EDITION 2.3)
"RETRO-REFLECTIVE SHEETING MATERIAL"
AFTER TWO YEARS OF NATURAL WEATHERING CYCLE (PART B)

0. CONCLUSION

The sample complied with the requirements for coefficient of retro-reflection and colour and luminance factor as per class I requirements, as requested in clause 2, after two years of natural weathering exposure cycle (Part B), as specified in standard SANS 1519-1: 2014 (Edition 2.3).

1. SAMPLE DESCRIPTION

TABLE 1 – SAMPLE DESCRIPTION

Sample description	Colours	Marking displayed on the front surface of the retro-reflective sheeting
Oralite retro-reflective sheeting material, series 5310, Class I	White	OR 7 Years 5310
	Yellow	
	Orange	
	Red	
	Green	
	Blue	

2. TESTS REQUESTED

Coefficient of retro-reflection and colour and luminance factor checks at six-monthly intervals for a period of two years, as requested in the standard.

3. SAMPLE SUBMITTED

The sample was received in a condition suitable for testing.

Submission date : 10 September 2012
Testing starting date : 12 September 2012
Testing completion date : 02 December 2014

SANAS Accredited Testing Laboratory No. T0085

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4. TEST METHOD

The tests were conducted in accordance with the test methods of standard SANS 1519- Part 1: 2014 (Edition 2.3).

5. TEST RESULTS

TABLE 2 – TEST RESULTS

Description of requirements	Clauses	Test results
Natural weathering - after 2 years of natural weathering (visual appearance)	4.3.1	Complied
Coefficient of retro-reflection	4.3.1	Complied See attachments
Colour and luminance factor	4.3.1	Complied See attachments and luminance factor in Table 3

TABLE 3 – LUMINANCE FACTOR

Colours	Luminance factor	Standard (minimum requirements)
White	0,37	0,35
Yellow	0,33	0,27
Orange	0,17	0,17
Red	0,06	0,05
Green	0,05	0,04
Blue	0,03	0,01

6. SUBCONTRACTING OF SABS LABORATORIES

None.

7. EXCLUSIONS

None.

8. UNCERTAINTY OF MEASUREMENT

The estimated uncertainty of measurement of the photometric measurement is approximately 5, 16% for a 94, 84 level of confidence.

9. NOTE

The sample was exposed for a period of two years as part of the natural weathering cycle (Part B).

Tested by: A. Rocha
TECHNICAL SIGNATORY
LIGHTING TECHNOLOGY

Checked by: T. Fourie
MANAGEMENT SIGNATORY
LIGHTING TECHNOLOGY