

TEST REPORT

ORAFOL Europe GmbH
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Your Ref: Oralite white 6910
Our ref: GE 01 (M)
Enquiries: A. Rocha
Tel: 012 428 6365
Date: 12 September 2016
Report No: 2330/ GE 01(M)
Page: 1 of 2

**TESTING TO STANDARD SANS 1519-1: 2014 (EDITION 2.3)
"RETRO-REFLECTIVE SHEETING MATERIAL"
AFTER TWENTY- FOUR, THIRTY AND THIRTY-SIX MONTHS
OF NATURAL WEATHERING CYCLE (PART B)**

0. CONCLUSION

The sample complied with the requirements as specified in standard SANS 1519-1: 2014 (Edition 2.3).

1. SAMPLE DESCRIPTION

TABLE 1 - SAMPLE DESCRIPTION

Colour	Description	Series/ Class
White	Oralite Brilliant Grade Prismatic (BGP) retro-reflective sheeting material	Series 6910/ Class 4a

2. SAMPLE SUBMITTED

The sample was received in a condition suitable for testing.

Submission date : 10 January 2013

Testing dates : 26 April 2013 to 08 September 2016

3. TESTS REQUESTED

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

4. TEST METHOD

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

5. SUBCONTRACTING OF SABS LABORATORIES

None.

SANAS Accredited Testing Laboratory No. T0085

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6. TEST RESULTS

TABLE 2- TEST RESULTS

Description of requirements	Clauses	Test results
Natural weathering (visual appearance)	4.3.1	Complied - after 24, 30 and 36 months
Coefficients of retro-reflection	4.3.1	Complied - after 24, 30 and 36 months See attachments
Colour and luminance factor	4.3.1	Complied - after 24, 30 and 36 months See attachments and luminance factor on Table 3

TABLE 3 - LUMINANCE FACTOR

Luminance factor	Standard
0,40 (after 24 months) 0,46 (after 30 months) 0,46 (after 36 months)	$\geq 0,27$

7. UNCERTAINTY OF MEASUREMENT

The uncertainty of measurement of the reflectivity was approximately $\pm 5,73\%$.

The uncertainty of measurement of the chromaticity co-ordinates was $\pm 0,005$ and that of luminance factor was $\pm 0,03$.

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by a coverage factor $k=2$, which for a normal distribution approximates a level of confidence of 95,45%.

8. NOTE

The sample was tested for three years exposure to natural weathering.

Tested by: A. Rocha
Technical Signatory
LIGHTING TECHNOLOGY

Checked by: T. Pheelwane (Ms.)
Acting Management Signatory
LIGHTING TECHNOLOGY

This test was performed by SABS Commercial SOC Ltd.

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