

TEST REPORT

ORAFOL Europe GmbH
Attention: Mr. J. Ewald
Orafolstraße 2
16515 Oranienburg

Your Ref: Oralite 6710
Our ref: GE 01 (K)
Enquiries: A. Rocha
Tel: 012 428 6365
Date: 29 April 2016
Report No: 2330/ GE 01(K)
Page: 1 of 2

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 3, 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	Colour	Marking displayed
Oralite Engineering Grade Prismatic (EGP) retro-reflective sheeting material, series 6710 Class I	Red	OR 6710 7 Years RA1

2. SAMPLE SUBMITTED

The sample was received in a condition suitable for testing.

Submission date : 10 January 2013
Testing dates : 10 January 2013 to 01 July 2015

3. 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.

SANAS Accredited Testing Laboratory No. T0085

1 Dr Lategan Road, Groenkloof, Private Bag X191, Pretoria, 0001.
Tel +27 12 428 7911. Fax +27 12 344 1568

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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 (visual appearance) After two years of natural weathering exposure	4.3.1	Complied
Coefficient of retro-reflection	4.3.1	Complied See attachments
Colour and luminance factor	4.3.1	Complied See attachment and luminance factor in Table 3

TABLE 3 – LUMINANCE FACTOR

Colours	Luminance factor	Standard (minimum requirements)
Red	0,08	0,05

6. SUBCONTRACTING OF SABS LABORATORIES

None.

7. EXCLUSIONS

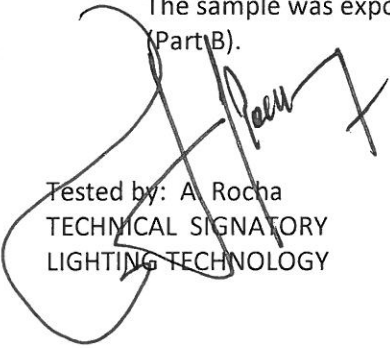
None.

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

This test was performed by SABS Commercial SOC Ltd.

This report relates only to the specific sample(s) tested as identified herein. It does not imply SABS approval of the quality and/or performance of the item(s) in question and the test results do not apply to any similar item that has not been tested. (Refer also to the complete conditions printed on the back of official test reports.) TP40028031

SABS

Photometric Test Report

SANS 20027:1998 / ECE R27 : 1998 (Rev.1) Clause 3.1.1

SANS 1519-1 Red D65

Date 01. Jul 2015

Time 08:49:46

Department Lighting Technology

Name A. Rocha

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Project : Photometric Requirements

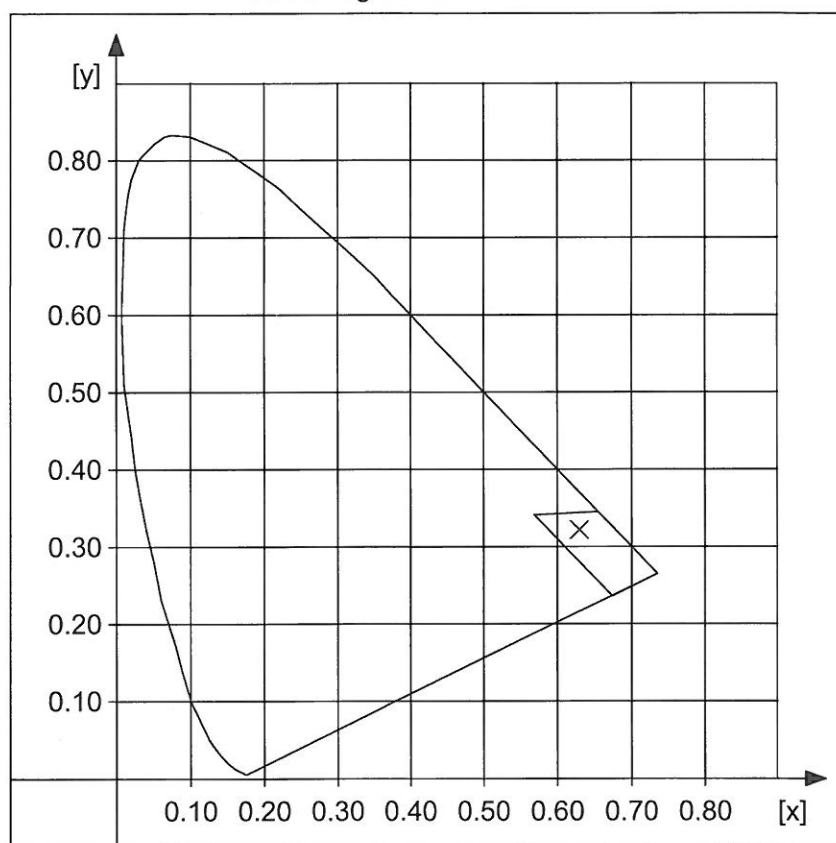
Job no.: 2330/GE 01

Client: Orafol

Sample: Oralite red, series 6710, Class I

Sample status: After 2 years exposure to natural weathering

colour region SANS 1519-1 Red D65



Channel color standard

	H	V	colour x	colour y	illuminance lx
first angle	0.00	0.00	0.630	0.322	16.880

Test passed

SABS

Photometric Test Report

SANS1519-1

ROAD SIGNS Orafol Red RA 1 (natural wtg)

Date 02. Jul 2015

Time 14:45:02

Department Lighting Technology

Name A. Rocha

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Project : Photometric Requirements

Job: 2330/ GE 01

Client: Orafol

Sample: Oralite Red, series 6710, Class I

Sample status: After 2 years exposure to natural weathering

Channel Retro 100ft 0°20' (150mm x 70mm)

	H	V	MIN	MAX	SAMPLE	
H/5V	0.00	5.00	8.00		82.72	cd/lx*m ²
H/-5V	0.00	-5.00	8.00		83.97	cd/lx*m ²
(H/V)	0.00	0.00			96.96	cd/lx*m ²

Test passed