

Test report : 3243

Page 1 of 6

LQF-510-02

TEST REPORT

No.3243

Project No.: *TI-4140-UL 1581*

Test Report for: *Sunlight Resistance of Specified ZARSIM Cable Covers*

Specimen : Cable Cover
Color : Gray
No. of samples : 10

The Cover Samples was presented by clients & their consultants for sunlight Resistance Testing.

Manufactured By: *Zarsim Wire & Cable Co.*

Tested According To: *UL 1581*

No. of pages

6

Issue date

01-March-2015

Prepared By: Test Engineer
B. Rahmati


Verified By: Technical Manager
S. M. Dezfulian

Vice President of CEO

S. M. Mirsadri

Approved By:

Engineering Deputy
of Test and Inspection
Prof. B. Vahidi


Technical Department
ISO IEC 17025

*This report should not be reproduced in extracts without written approval by EPIL.
Test results pertain to the tested sample only.
Not Valid Without Lab Stamp.*

Test report : 3243

Page 2 of 6

LQF-510-02

CONTENTS

	Page
1. General Information	3
1.1 Product Information	3
1.2 Client Information	3
1.3 Summary of Tests	3
2. Performance and Results of Tests	4
2.1 Sunlight Resistance Test	4
3. Figures	6



*This report should not be reproduced in extracts without written approval by EPIL.
Test results pertain to the tested sample only.
Not Valid Without Lab Stamp.*

Test report : 3243

Page 3 of 6

LQF-510-02

1. GENERAL INFORMATION

1.1 Product Information

Equipment under test	: Cable cover
Manufacturer	: Zarsim Wire & Cable Co.
Color	: Gray
No. of samples from each cable size	: 10
Normative document	: UL 1581

1.2 Client Information

Applicant	: Zarsim Wire & Cable Co.
Contact person	: Mr. Kahalzade
Telephone	: +98-21-22571100

1.3 Summary of Tests

Sunlight Resistance Test	: Passed
--------------------------	----------


Technical Department
ISO IEC 17025
Accredited Lab

*This report should not be reproduced in extracts without written approval by EPIL.
Test results pertain to the tested sample only.
Not Valid Without Lab Stamp.*

Office: 3rd floor, No. 186, After Mofateh Crossway, Motahari Ave. Tehran - Iran Zip Code: 1575943551

Tel: (+9821) 88831988, 88341244 Fax: (+9821) 88842378

Lab.: Kavosh Research City, Supa Blv., 8th km. Karaj-Qazvin, Freeway, Iran.

Tel: (+9826) 92108380-9 Telefax: (+9826) 92108385

www.eepil.com info@eepil.com

Test report : 3243

Page 4 of 6

LQF-510-02

2. PERFORMANCE AND RESULTS OF TESTS

2.1 Sunlight Resistance Test

2.1.1 Test data

Date : 07-March-2015
Engineer of EPIL : Mr. Rahmati, Mr. Dezfulian
Engineer of Zarsim wire & cable : Mr. Kahalzade
Normative Document : UL 1581

2.1.2 Ambient conditions

Ambient Temperature : 21 °C
Relative Humidity : 31 %
Atmospheric Pressure : 86.5 kPa

2.1.3 Instrument used for test

Table1 – Calibration device codes of conductor measurements

No.	Device Name	Mark or Model	Calibration
1	Caliper	Mitutoyo	OK
2	UV chamber	LIB	OK
3	Tensile tester	Santam	OK

2.1.4 Procedure of test

This test shall be conducted on five complete specimens.
The specimens shall be conditioned by Xenon-arc radiation and water spray.
The radiation shall be produced by lamp assembly of the long-arc water-cooled type.
The lamp assembly shall be consist of a quartz xenon burner tube that is centered inside concentric inner and outer cylindrical optical filter tubes of borosilicate glass.
Operation of the lamp assembly shall be maintain at level of spectral irradiance at the specimens of at least 0.35 W/m² monitored at wavelength of 340 nm.
The five conditioned specimens and the five unconditioned specimens are to be tested separately and in close succession for tensile strength and ultimate elongation.

*This report should not be reproduced in extracts without written approval by EPIL.
Test results pertain to the tested sample only.
Not Valid Without Lab Stamp.*

Test report : 3243

Page 5 of 6

LQF-510-02

Test Condition:
Sunlight radiation
1 rpm rotation
Water spray
Black temperature: 63

Tensile test on five conditioned specimens and five unconditioned specimens:

The load shall be applied gradually and the rate of separation of the jaws of the testing machine shall be not less than 25 mm per minute and not greater than 100 mm per minute.

2.1.5 Results of tests

Table 2 – Results of Tensile test before and after sunlight resistance test

No.	Sample	Results of tensile test		
		Before Sunlight	After Sunlight	Result
1	Cable Cover	14.149	16.868	Ok

✓ PASSED


Technical Department
ISO IEC 17025
Accredited Lab

*This report should not be reproduced in extracts without written approval by EPIL.
Test results pertain to the tested sample only.
Not Valid Without Lab Stamp.*

Office: 3rd floor, No. 186, After Mofateh Crossway, Motahari Ave.Tehran - Iran Zip Code: 1575943551

Tel: (+9821) 88831988, 88341244 Fax: (+9821) 88842378

Lab.: Kavosh Research City, Supa Blv., 8th km. Karaj-Qazvin, Freeway, Iran.

Tel: (+9826) 92108380-9 Telefax: (+9826) 92108385
www.eepil.com info@eepil.com

3. Figures



Figure 1- Specimen



Figure 2-UV Chamber

E.P.I.L. ✓

Technical Department

ISO IEC 17025

Accredited Lab

*This report should not be reproduced in extracts without written approval by EPIL.
Test results pertain to the tested sample only.
Not Valid Without Lab Stamp.*