



Verification Testing Laboratory Analysis/Test Report

Date Received: 2016/09/26

Assignment No: 105A011-K111021

Date Issued: 2017/01/18

Applicant: FLEXWAVE CO., LTD.

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Articles: Waveguide
(A1、A2、B1、B2、C1、C2、D1、D2)

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Authorized by


Yang Ching-Lin
Group Leader





Verification Testing Laboratory Analysis/Test Report

Application No : 105A011-K111021

Date Tested : 2016/09/30~2017/01/13

Item(s)/ Method(s)

Result(s)

Note

1.UV Exposure Test
ASTM G154

Sample name	Appearance Criticism
A1	No apparent change of the sample is observed with the naked eye after test
A2	No apparent change of the sample is observed with the naked eye after test
B1	No apparent change of the sample is observed with the naked eye after test
B2	No apparent change of the sample is observed with the naked eye after test
C1	No apparent change of the sample is observed with the naked eye after test
C2	No apparent change of the sample is observed with the naked eye after test
D1	No apparent change of the sample is observed with the naked eye after test
D2	No apparent change of the sample is observed with the naked eye after test

2.Transmittance Test After
Weather Resistant Test
ASTM G154 &
ASTM D1003

Sample name	Transmittance Test (%)			
	Before test	704 hrs	1408 hrs	2113 hrs
A1	93.7	92.8	91.1	92.4
A2	93.5	93.2	92.5	92.0
B1	92.9	92.2	91.7	91.5
B2	92.9	91.9	91.8	91.4
C1	93.9	92.7	90.9	91.8
C2	93.7	92.6	91.5	92.0
D1	93.4	92.6	91.2	91.2
D2	93.4	92.9	92.2	90.8



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Item(s)/ Method(s)

Result(s)

Note

3.Yellow Index after UV
Exposure Test
ASTM G154 &
ASTM E313

Sample name	Yellow Index			
	Before test	704 hrs	1408 hrs	2113 hrs
A1	-0.56	-0.45	0.26	0.45
A2	-0.56	0.39	0.07	0.49
B1	0.03	-0.81	0.23	0.57
B2	0.03	0.18	0.35	0.35
C1	0.73	0.30	0.31	0.71
C2	0.73	0.19	0.28	0.75
D1	0.32	0.60	0.72	0.86
D2	0.32	0.38	0.68	0.82

REMARK :

1.UV Exposure Test

- 1.1 Specimen Preparation Method: Provided By Customer
- 1.2 UV Exposure - Test Lamp: UVA 340 nm
- 1.3 UV Exposure - Irradiance: 0.89 W/m²
- 1.4 UV Exposure - Test Cycle : Cycle 1 : 8 h UV at 60 °C ;4 h Condensation at 50 °C
- 1.5 UV Exposure - Test Time : 2113 hrs(15 kWh/m²)

2.Transmittance Test After Weather Resistant Test

- 2.1 Specimen Preparation Method: Provided By Customer
- 2.2 UV Exposure - Test Lamp: UVA 340 nm
- 2.3 UV Exposure - Irradiance: 0.89 W/m²
- 2.4 UV Exposure - Test Cycle : Cycle 1 : 8 h UV at 60 °C ;4 h Condensation at 50 °C
- 2.5 UV Exposure - Test Time : 704 hrs(5 kWh/m²) 、 1408 hrs(10 kWh/m²) 、 2113 hrs(15 kWh/m²)

3.Yellow Index after UV Exposure Test

- 3.1 Specimen Preparation Method: Provided By Customer
- 3.2 UV Exposure - Test Lamp: UVA 340 nm
- 3.3 UV Exposure - Irradiance: 0.89 W/m²
- 3.4 UV Exposure - Test Cycle : Cycle 1 : 8 h UV at 60 °C ;4 h Condensation at 50 °C
- 3.5 UV Exposure - Test Time : 704 hrs(5 kWh/m²) 、 1408 hrs(10 kWh/m²) 、 2113 hrs(15 kWh/m²)

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