



**MODENA CENTRO PROVE s.r.l.**

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C.C.I.A.A. Modena n. 228587 - Tribunale di Modena n° 2231 - C.F. e P. IVA n. 01592020364

**RESISTANCE TO UV RAYS**

Beginning date : 21/12/2018

Analysis ending date : 25/01/2019

**Test environment:**

- **Temperature:** 23 °C
- **Atmospheric pressure:** 1010 mbar
- **Relative humidity:** 50 %

**Test data:**

- **Duration of the test** : 840 h (35 days)
- **Test chamber temperature** : 60 ± 2 °C
- **Exposure** : 24 hours on 24 to UV-A
- **Radiation** : 0,76 W/m<sup>2</sup> a 340 nm

<p>Examiner <i>Giacomo Falanga</i> Dr. Falanga Giacomo</p>	<p>Metallurgy Dept. Responsible <i>Maurizio Maranelli</i> p.i. Maranelli Maurizio</p>	<p>MODENA CENTRO PROVE <i>Giuseppe Sant'Unione</i> Director Sant'Unione dr. Giuseppe</p>
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**Results after the test:**

Sample	Inspection interval	Observations
Artificial lichen	1 week	No color variation
	2 weeks	No color variation
	3 weeks	No color variation
	4 weeks	No color variation
	5 weeks	At the end of the test sample doesn't show any alteration of the color and no degradation of the material
Buxus 3D purple big	1 week	No color variation
	2 weeks	No color variation
	3 weeks	No color variation
	4 weeks	No color variation
	5 weeks	At the end of the test sample doesn't show any alteration of the color and no degradation of the material
Buxus 3D purple small	1 week	No color variation
	2 weeks	No color variation
	3 weeks	No color variation
	4 weeks	No color variation
	5 weeks	At the end of the test sample doesn't show any alteration of the color and no degradation of the material
Aloe vera	1 week	No color variation
	2 weeks	Slight loss of brightness of the tested surface
	3 weeks	The sample is darker than the new sample
	4 weeks	No significant change
	5 weeks	At the end of the test, the sample presents a visible loss of gloss and the coloring is darker than the untested sample
Purple leaves	1 week	No color variation
	2 weeks	No color variation
	3 weeks	No color variation
	4 weeks	No color variation
	5 weeks	At the end of the test sample doesn't show any alteration of the color and no degradation of the material

<b>Examiner</b> <i>Giacomo Falanga</i> Dr. Falanga Giacomo	<b>Metallurgy Dept. Responsible</b> <i>Maurizio Maranelli</i> p. Maranelli Maurizio	<b>MODENA CENTRO PROVE</b> <i>Giuseppe Sant'Unione</i> Director Sant'Unione dr. Giuseppe
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**Sample photos at the end of the test:**



**Artificial lichen**



**Buxus 3D purple big**

Examiner  
*Giacomo Galongo*  
Dr. Fafranga Giacomo

Metallurgy Dept. Responsible  
*Maranello Maurizio*  
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**Buxus 3D purple small**



**Aloe vera**



**Purple leaves**

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