



**INSTITUT PRO TESTOVÁNÍ A CERTIFIKACI, a. s.**

třída Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic

**Testing Laboratory**

Testing laboratory \* Calibration laboratory \* Product certification body \* Management systems certification body  
Inspection body \* Authorized body \* Notified body

Number of pages: 3

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## **TEST REPORT**

### **ref. No. 412503666-02**

**Client:** QVC Certification Services Pvt. Ltd

**Address:** 2-B Civil lines, Yukti Bussines Centre, Near Old Session Court  
Ambala City 134003 Haryana, India

**Issued for:** Greenlam Industries Limited  
GST No. 02AAF CG2966D1ZY  
Vill-Paterh Bhonku, P.O.-Panjehra, Tehsil-Nalagarh, Distt-Solan (HP).  
Nalagarh-174101, India

**Sample:** Exterior Grade laminate - "Greenlam"

**Sample received on:** April 30, 2021

**Report elaborated by:** Ing. Lada Matějková

**Place and date of issue:** Zlín, October 19, 2021

Ing. Jiří Samsonek, Ph.D.  
Head of Testing Laboratory

**Note: The results given in this Test Report apply only to the sample tested by our laboratory!**  
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**Description and identification of samples:****Table No. I - Sample description and identification**

ITC's identification number	Sample identification by client	Description of submitted sample
412503666/1	Exterior Grade laminate - "Greenlam"	Pieces of compact laminate



Pict. No. 1 Photo of samples

**Sampling method used:**

The test samples were collected and supplied to the laboratory by the client. The laboratory is not responsible for this way of sampling.

**Work requested:**

Determination of light fastness according to ČSN EN 438-2+A1:2019

**Testing method used:**

Artificial weathering test (determination of light fastness) according to ČSN EN 438-2 standard, section 27.

**Test conditions:**

Black standard temperature:  $(65 \pm 3)^\circ\text{C}$ ,  $(50 \pm 5)\%$  RH, irradiation intensity:  $(60 \pm 3) \text{ W/m}^2$ , continual irradiation, testing time period: 170 hours  $(36720 \text{ kJ/m}^2)$ .

Number of the test specimens used: 1; dimension of the test specimens:  $(125 \times 45 \times 5,5) \text{ mm}$ .

After the artificial weathering test the samples were conditioned  $24\text{h}/23^\circ\text{C}/50\% \text{ RV}$  in the dark and then evaluated in light box (illuminant type Home – 2856 Kelvin). The tested sample was assessment according to ČSN EN 20105-A02.

**Assessment method:**

- Visual, based on a comparison of the contrast of reference and exposed test specimens with the colour of the grey scale standards (according to ČSN EN 20105-A02 standard). In the grey standard scale for assessing change in colour, the grade 1 corresponds to the greatest colour difference while the grade 5 to the zero difference in colour.
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*The laboratory is not responsible for information received from customer, which could have influence on the validity of the results. Further information required by the standard/standards and not given in this Test Report are available at a request at the Laboratory.*

**Testing laboratory:**

Workplace no. 2 – třída Tomáše Bati 5264, Svit area, building No. 113, 760 01 Zlín

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**Deviation from standard:**

Light chamber.

**Test result:**

The test results are given in the following table:

**Table No. II - Exterior Grade laminate - "Greenlam", sample reg. No. 412503666/1**

Characteristics measured	Unit	Test results	Requirement
Artificial weathering test according to ČSN EN 438-2 standard, section 27			
- after 36 720 kJ/m <sup>2</sup> (170 hrs)	degree of	degree 4-5	-
- visual evaluation of surface	grey scale	(very slight darkening)	



The samples without exposure    The samples after exposure

Pict. No. 2 Photo of sample

M.Sc. Roman Dlabaja, Ph.D.  
Head of Laboratory of Physics

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