#### CIDEMCO-Tecnalia



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### **TEST REPORT TRANSLATION**

CLIENT: **COMPOSITES GUREA, S.A.** 

CONTACT PERSON: ELENA ROJO

ADDRESS: Zalain Auzoa, 13 - Apartado 1

31780 VERA DE BIDASOA (Navarra)

**TESTED MATERIAL: HPL COMPACT LAMINATE SAMPLES** 

PARKLEX FACADE S AND PARKLEX FACADE F

PURPOSE OF THE REQUEST: RESISTANCE TO UV LIGHT

RECEIPT DATE: 16.07.2009 **TEST BEGINNING DATE:** 17.07.2009 TEST END DATE: 17.09.2009 **REPORT EMISSION DATE:** 01.10.2009

The results of the tests can only be applied to the material received and tested in this Research Centre on the indicated dates.

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Blanca Ruiz de Gauna Joint Technologies Manager

Susana Rodríguez Analyst



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#### 1. TEST SPECIMENS

16 (2 by reference) HPL compact laminate samples with the reference PARKLEX FACADE S and PARKLEX FACADE F belonging to the company "*COMPOSITES GUREA, S.A.*" was received at CIDEMCO on 16<sup>th</sup> of July of 2009, with the following references:

- GOLD
- AMBAR
- RUBÍ
- ANTRA
- COPPER
- ONIX
- SILVER
- QUARTZ

#### 2. TESTS REQUESTED

The requested test is the following:

♦ Resistance to UV light (exterior grade laminates) according to UNE-EN 438-2:2005 Section. 28

#### 3. CARRIED OUT TESTS

## ♦ Resistance to UV light (exterior grade laminates) according to UNE-EN 438-2:2005 Section. 28

On take two test specimens of appropriate size for the camera specified in UNE-EN ISO 4892-3:2006. One specimen is exposed to light, and the other is kept in dark conditions.

The lamps used are UV-B lamps of 40 W with a peak emission at 313 nm and a spectral energy distribution as specified in UNE-EN ISO 4892-3:2006.

The specimens are cycled in accordance with exposure mode 1 of UNE-EN ISO 4892-3:2006. The cycle consists of 4 hours of dry UV exposure at a black-standard temperature of  $(60\pm3)^{\circ}$ C followed by 4 hours of condensation exposure, without radiation, at a black-standard temperature of  $(50\pm3)^{\circ}$ C.

Test duration is 1500 hours.





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The following parameters are evaluated:

- 1. **Contrast**: the contrast between the exposed and unexposed test specimens was observed and records it in terms of a grade on the grey scale.
  - EG=1 Very strong change
  - EG=2 Strong change
  - EG=3 Important change
  - EG=4 Change beginning
  - EG=5 Without change
- 2. **Appearance**: the surface of the test specimen was observed by naked eye, at a distance of approximately 50 cm. The appearance was assessed in comparison with the control specimen with the following rating scale:
  - Rating 5: No visible change
  - Rating 4: Change of gloss only
  - Rating 3: Hairline surface cracks and/or erosion of surface delamination
  - Rating 2: Surface cracks
  - Rating 1: Blistering and/or delamination





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### 4. RESULTS

# ♦ Resistance to UV light (exterior grade laminates) according to UNE-EN 438-2:2005 Section. 28

The results for contrast between the exposed and unexposed test specimens, expressed according to grey scale are shown in table I

**Table I - Contrast** 

Reference		Grey scale
PARKLEX FACADE S and PARKLEX FACADE F	GOLD	4/5
	AMBAR	5
	RUBÍ	5
	ANTRA	5
	COPPER	5
	ONIX	5
	SILVER	5
	QUARTZ	5

In the following table, the obtained results are showed about the appearance of the specimens:

Table II - Appearance

Reference		Evaluation
PARKLEX FACADE S and PARKLEX FACADE F	GOLD	5
	AMBAR	5
	RUBÍ	5
	ANTRA	5
	COPPER	5
	ONIX	5
	SILVER	5
	QUARTZ	5

