

## TEST REPORT TRANSLATION

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

CONTACT PERSON: **FERNANDO ENCIO**

ADDRESS: **Zalain Auzoa, 13 – Apartado 1  
31780 VERA DE BIDASOA (Navarra)**

TESTED MATERIAL: **HPL COMPACT LAMINATE SAMPLE  
«PARKLEX 1000 ANP»**

PURPOSE OF THE REQUEST: **RESISTANCE TO ARTIFICIAL WEATHERING**

RECEIPT DATE **13.09.2004**  
TEST BEGINNING DATE: **24.01.2005**  
TEST END DATE: **20.09.2005**  
REPORT EMISSION DATE **24.11.2005**

The results of the tests can only be applied to the material received and tested in this Research Centre on **13.09.2004**.

This report is in four (4) pages and it cannot be reproduced without CIDEMCO's authorisation, but in an unabridged version.



**Virginia Aseguinolaza**  
Analyst



**Javier García Jaca**  
Head of Materials Department

## 1. TEST SPECIMENS

HPL compact laminate sample belonging to the company “**COMPOSITES GUREA, S.A.**” was received at CIDEMCO on September 13th of 2004 with the following reference:

- «PARKLEX 1000 ANP»

## 2. TEST REQUESTED

The requested test is the following:

- ◆ Weathering performance according to UNE-EN ISO 4892-2:2000 “Methods of exposure to laboratory light sources. Part 2: Xenon-arc sources”

## 3. CARRIED OUT TESTS

As indicated in the standard EN 438-2:2005 apt. 29 about the assessment of the properties of high pressure decorative laminates, the weathering test is carried out according to the method of the standard UNE-EN ISO 4892-2:2000.

### ◆ Weathering performance according to UNE-EN ISO 4892-2:2000

The test was carried out in a chamber with xenon arc lamp. This lamp fitted with suitable filters and properly maintained produces a radiation with a spectral energy distribution similar to that of terrestrial sunlight in the ultraviolet and visible regions of the spectrum. The used combination of filters is:

- Inside filter: Borosilicate
- Outside filter: Borosilicate

Chamber temperature  $(38 \pm 5)$  °C.

Relative humidity  $(65 \pm 5)$ %.

Black panel temperature:  $65 \pm 3$  °C.

- Spray cycle:
- 18 minutes spray
  - 102 minutes dry period



Test duration: Two assessment are made:

- After 325 MJ/m<sup>2</sup> of irradiance
- After 650 MJ/m<sup>2</sup> of irradiance

The degradation was evaluated using a grey scale (EN 20105-A02:1994) as reference. This scale uses the following values:

- EG=1 Very strong change
- EG=2 Strong change
- EG=3 Important change
- EG=4 Change beginning
- EG=5 Without change

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

The samples are classified according to EN 438-6:2005 as:

Irradiance	Specification (EN 438-6:2005)	Classification
325 MJ/m <sup>2</sup>	Grey scale EG=3	EGS ó EGF
650 MJ/m <sup>2</sup>	Appearance Rating 4	EDS ó EDF

#### 4. RESULTS

In the following table the obtained results are showed:

Reference	Performance (650 MJ/m <sup>2</sup> )			
	Appearance	Grey scale	Specification	Assessment
«PARKLEX 1000 ANP»	Rating 5*	4-5	Appearance Rating 4 Grey scale EG=3	EDS ó EDF

\* The samples show a slight loss of adherence of the superficial overlay, lower than 1 mm in the cut area, due to sample preparation.