



# TEST REPORT

SUBJECT N°/REPORT: P-13-15346/3/1

COMPANY: **BTC IBÉRICA, S.A.**

ADDRESS: Pol. Ind. Centrovía c/ San Francisco N°9

50196 LA MUELA (ZARAGOZA)

TESTED MATERIAL: One plastic material

DATE OF RECEPTION: 10.09.13

DATE OF ANALYSIS: 16.09.13 to 03.10.13

N° OF PAGES

8

(INCLUDING THIS COVER SHEET)

The results of the analysis are only referred to the tested material.

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This test report is a translation of the original P-13-15346/1 in Spanish. If some conflict arises it will prevail Spanish version.

  
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**15 OCT 2013**  
Irteera - salida  
Nº: 1250/13

  
Iratxe Zuazola  
Laboratory Coordinator  
Zamudio, 16th October 2013

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## MATERIAL

Specimens of a plastic material were received from **BTC IBÉRICA, S.A.** for an accelerated aging test and the evaluation of mechanical properties before and after accelerated aging.

The materials have been referred by the supplier and coded internally as:

Your Reference

**PVC TO BS5746, EN 50290-2-22 AND IEC60502-1**

Our Reference

P-13-15346-A-1



P-13-15346-A-1

## TESTS

It was requested to perform an accelerated aging test according to UL1581, and mechanical properties evaluation before and after aging according to UNE EN ISO 527-2.

  
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## TEST DESCRIPTION

Accelerated aging test conditions:

- Arc xenón lamp
- Black panel temperature:  $63^{\circ}\text{C} \pm 3$
- Chamber temperature:  $38^{\circ}\text{C} \pm 3$
- Rain/dry cycle: 18/102 min
- Soda borosilicate glass filter
- Spectral irradiance: 1 W/m<sup>2</sup> (420 nm)  
(Equivalent to 0,35 W/m<sup>2</sup> (340 nm))
- Humidity:  $50\% \pm 10$
- Exposure time: 300 Hours

It has been request the following test before and after aging:

- Tensile strength and modulus of elasticity according to UNE EN ISO 527-2:2012

The specimens have been sent by the supplier according to UNE EN 60811-1-1 and conditioned according to UNE EN ISO 291:2008.

## RESULTS

The average results obtained are:

**Sample: PVC TO BS5746, EN 50290-2-22 AND IEC60502-1 (P-13-15346-A-1)**

Test	Average
Tensile strength (MPa) Before aging	19,9
Elongation (%) Before aging	260
Tensile strength (MPa) After aging	19,1
Elongation (%) After aging	250

Note: The relation between tensile strength and ultimate elongation values after and before exposure to xenon arc during 300 hours is bigger than 0,85.



P-13-15346-A-1 after 300 H aging



Tensile test

  
**GAIKER**  
 ik research alliance  
 Raquel Rubio

Maximum Test Responsible  
 Zamudio, 16th October 2013



Accuracy of the test machine is 1%  
Accuracy of the extensometer is 1%

OBSERVATIONS:

1.- Conditioning procedure:

144 hours at 23°C and 50% relative humidity.

2.- Are there any deviations concerning specimens size tolerance?

There are no deviations.

3.- Other observations:





