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## Product in accordance

with requirements of Directive 2004/12/CE that modifies Directive 94/62/CE  
about packaging related in European standard EN 13427:2000

Adhesive sample referenced as AUTOADHESIVO A-251, manufactured by  
TORRASPAPEL SA is **agree** with the evaluation requirements designed for  
packaging, detailed in table 1.

Conformity number: Dir CP\_09\_05

Issued: July, 7<sup>th</sup> 2005

Service responsible

M<sup>a</sup> Àngels Pèlach

Laboratory responsible

Susanna Presta

Membre de:



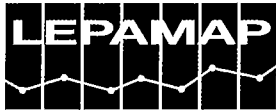
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## DIRECTIVE 2004/12/CE and DIRECTIVE 94/62/CE REQUIREMENTS

Adhesive sample: AUTOADHESIVO A-251

Evaluation abstract:

<b>Evaluation criteria</b>	<b>Evaluation requirement</b>	<b>Declaration</b>
Requirements for measuring and verifying the four heavy metals present in packaging and their release into the environment	To guarantee levels lower than maximum allowed for components (UNE CR 13695-1)	Conform
Requirements for measuring and verifying dangerous substances present in packaging and their release into the environment	To guarantee conformity with EN 13428:2000 Standard (UNE-CR 13695-2; Directive 67/548/CE ; Directive 92/32/CEE ; Directive 2001/59/CE (28 <sup>a</sup> Adaptation)	Conform
Requirements for packaging waste valorisation by means of energy recovery.	To guarantee that calorific gain of waste packaging is suitable (EN 13431:2000)	Conform



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**PACKAGING. Requirements for packaging recoverable in the form of energy recovery,  
including specification of minimum inferior calorific value (UNE-EN 13431)**

**1.- OBJECTIVE**

The main requirement for packaging to be considered recoverable is that it provides the thermodynamic requirements to allow the incineration with energy recovery of packaging waste.

**2.- SAMPLE DESCRIPTION**

- Adhesive suspension: AUTOADHESIVO A-251

**3.- TEST CONDITIONS**

Conformity declaration with this standard has to be reinforced by next requirements:

- Material composition. Packaging composed of more than 50% (by weight) of organic content, provides calorific gain and meets the requirements to be considered recoverable
- Calorific value, when necessary, i.e., if inorganic constituents are higher than 50% (by weight).

So, first determination is the ash content as indicated in international standard ISO 1171:1997.

Sample are conditioned and 1 g of sample are weighed to the nearest 0.1 mg. Insert the sample in the furnace at room temperature. Raise the furnace temperature to 125 °C over a period of 30 min. to dry the sample. Continue heating to 525±10°C, maintaining this temperature for at least 60 min. When the incineration period is complete, remove the dish from the furnace and allow to cool until the weight is possible.

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#### 4.- RESULTS

Testing date: 05/05/2005.

Ash content (%)	Standard deviation
2,61	0,19

Results indicate than organic matter content is 97,39% with a confidence interval of 0,21.  
This sample is considered energy recoverable.

#### 5.- CONCLUSION.

Adhesive suspension analysed, referenced as AUTOADHESIVO A-251 **is considered energy recoverable**, in agree with Directive 2004/12/CE and Directive 94/62/CE.

Service responsible



Mª Angels Pèlach  
Dr. Chemistry Science

Laboratory responsible



Susanna Presta Masó  
Chemistry Science Degree

## **PACKAGING. Requirements for measuring and verifying the four heavy metals present in packaging (UNE-CR 13695-1)**

### **1.- SAMPLE DESCRIPTION**

- Adhesive suspension: AUTOADHESIVO A-251

### **2.- FACTORY**

- TORRASPAPEL, S. A.

### **3.- TEST CONDITIONS**

Total digestion of sample by means of laboratory microwave MILESTONE previously treated with acids ( $\text{HNO}_3:\text{H}_2\text{O}_2:\text{HF}:\text{H}_2\text{O}$ ) in proportion 3:2:1:2.

Treatment program: total time: 115 min. Increase to 120°C and 5 min stabilization; increase to 150°C and 5 min stabilization; increase to 180°C and 5 min stabilization; increase to 200°C and 5 min stabilization and at last, increase to a 210°C and 5 min stabilization.

Determination of heavy metals have been made by ICP-Mass spectrometry.

### **4.- RESULTS**

Testing date: 10/05/2005.

<b>Metals</b>	<b>Results (ppm)</b>
Mercury	< 0,25
Cadmium	< 0,6
Chromium (total)	1
Lead	< 0,6
<b>TOTAL</b>	<b>&lt; 100 ppm</b>

Results expressed in mg element/Kg material

Analysis results indicate than heavy metal content is lower than 100 ppm.

5.- CONCLUSION.

Sample analysed referenced as AUTOADHESIVO A-251 is agree with Article 11 of Directive 2004/12/CE and Directive 94/627CE about concentration levels of heavy metals in packaging and packaging wastes.

Service responsible

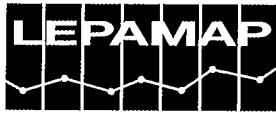


Dra. M. Àngels Pèlach Serra

Laboratory responsible



Susanna Presta Masó



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**PACKAGING. Requirements for measuring and verifying dangerous substances  
present in packaging (UNE-CR 13695-2)**

**1.- SAMPLE DESCRIPTION**

- Adhesive suspension: AUTOADHESIVO A-251

**2.- FACTORY**

- TORRASPAPEL, S. A.

**3.- CONFORMITY ANALYSIS**

Paper sample doesn't present substances classified as dangerous for environment, or if presents, their concentration are lower than 0.1%, as indicated in Directive 67/548/CE, its modifications (Directive 92/32/CEE) and corresponding adaptations (Directive 2001/59/CE and Directive 1999/45/CE).

Analysis realized in April, 15<sup>th</sup> 2005

**4.- CONCLUSION.**

Paper sample analysed referenced as AUTOADHESIVO A-251 **is agree** with EN 13428:2000 related in Directive 2004/12/CE and Directive 94/62/CE about presence of dangerous substances in packaging.

Service responsible

Dra. M.Àngels Pelàch Serra

Laboratory responsible

Susanna Presta Masó

Membre de:



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