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D'ENGINYERIA PAPERERA  
I MATERIALS POLIMÈRICS



## 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

Paper sample referenced as 1 SIDE COATED GLOSS, manufactured by TORRASPAPEL, SA is agree with the evaluation requirements designed for packaging, detailed in table 1.

Conformity number: 10\_SCA\_015 CP36 1 SIDE COATED GLOSS

Issued: December, 15<sup>th</sup> 2010

Service responsible

Josep Puig

Membre de:



R75.1-07.4 Rev.:01



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

Sample: 1 SIDE COATED GLOSS

Evaluation abstract:

<b>Evaluation criteria</b>	<b>Evaluation requirement</b>	<b>Declaration</b>
Requirements for measuring and verifying 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 valorization by means of energy recovery.	To guarantee that calorific gain of waste packaging is suitable (EN 13431:2000)	Conform

## **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

- 1 SIDE COATED GLOSS paper sample

### 3.- FACTORY

- TORRASPAPEL, S. A.

### 4.- 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 105 °C over a

period of 30 min. to dry the sample. Continue heating to  $525\pm 10^{\circ}\text{C}$ , 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.

## 5.- RESULTS

Testing date: 2/12/2010

Ash content (%)	Standard deviation
29,41	0,09

Results indicate than organic matter content is 70,59 % with a confidence interval of 0,09. This sample is considered energy recoverable.

## 6.- CONCLUSION.

Paper simple analysed, referenced as 1 **SIDE COATED GLOSS** is **considered energy recoverable**, in agree with Directive 2004/12/CE and Directive 94/62/CE.

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Josep Puig Serramitja  
Dr. Industrial Engineer

Laboratory responsible



Rosa M. Rafart Soy  
Engineer

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

### 1.- SAMPLE DESCRIPTION

- 1 SIDE COATED GLOSS paper sample

### 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.

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

### 4.- RESULTS

Testing date: 30/7/10

Metals	Content (ppm)
Mercury	<0,050
Cadmium	<0,050
Chromium (total)	8,92
Lead	2,12
<b>TOTAL</b>	<b>&lt; 100 ppm</b>

Results expressed in mg element/Kg material

Membre de:

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

5.- CONCLUSION.

Paper sample analysed referenced as 1 SIDE COATED GLOSS is agree with Article 11 of Directive 2004/12/CE and Directive 94/62/CE about concentration levels of heavy metals in packaging and packaging wastes.

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