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THE ENGLISH LANGUAGE
tel/fax: (077) 44 88 200
email: joex1@o2.pl

Report on determination of the content of elements by the XRF method

Częstochowa, 28.03.2017

Customer:

Elipse Witold Marczyk, Bernard Marczyk s.c.
Dziewiętlice 39
48-370 Paczków
NIP (Tax Identification Number): 7532439059

Date: of sample acceptance: 13.03.2017(-)

Sample Specification:

There are no contraindications to perform the test resulting from the condition of the sample.

Sampling place:

Laboratory of Polymer Plastics Research
Plastigolab
Bór 77/81
42-202 Częstochowa

Test date:

16 - 28.03.2017

1. Purpose of the test

The purpose of the study was to determine the content of metals in the material provided by Contractor with the method of X-ray fluorescence characteristic with wavelength dispersion (WDXRFI).

2. Test material

For the test the customer provided the material in the form of a polyester flake (Fig. 1).
Fig. 1 Material for test

3. Test results

The WDXRF analysis shows the contents of the elements in the material:

Element	Cd	Pb	Cr	Hg
Content [mg / kg]	<LOQ=10	<LOQ=10	<LOQ=10	<LOQ=10

Table 1 Summary of results

LOQ - limit of determination



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4. Summary

Based on fluorescence analysis of characteristic X-ray radiation with wave length dispersion, it was found that in the material provided by the customer there are no heavy metals (Cd, Pb, Cr, Hg) or their concentration is below the limit of determination, which is 10mg / kg. This material has no negative impact on the environment.

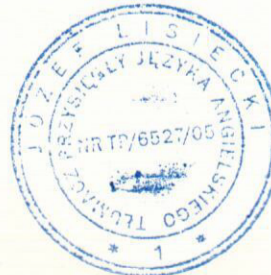
The report was made by:
Gabriela Bastek, Laboratory assistant, g.bastek@plastigo.pl(-)

Asten Group Sp. z o.o., 42-202 Częstochowa, ul. Bór 77/81(-)
668 599 593 .laboratorium @ plastigo.pl, www.plastigo.pl(-)

An oblong stamp of Asten Group Plastigo with a decipherable signature: "GBastek"(-)

I, sworn translator of the English language registered with the Ministry of Justice, hereby certify that the above is an exact and true translation of the document drawn in the Polish language as presented to me. In witness whereof I have hereunto set my hand and seal of office this... *third* ...day of... *April* ...2017.

Entered in the Repertory under No... *86-*



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