



Institute of Mining Technology

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**LABORATORY OF MATERIAL
ENGINEERING AND ENVIRONMENT**



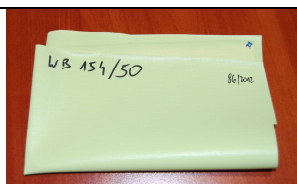
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REPORT No. 508/DLS/2012

Determination of phthalates content in sample of PVC foil ID: WB 154/50 (86/2012), delivered for testing by ERGIS-EUROFILMS S.A.

Orderer: ERGIS-EUROFILMS S.A. Project: UP/DLS-13968/OR67
Dąbrowskiego 2,
87-200 Wąbrzeźno, Poland

Name of tested object	Sample of PVC foil
Orderer Markings	WB 154/50 (86/2012)
Number of sample, according to the R-DLS/7:	508/12/P1



Date of delivery the object for testing: 18.12.2012
Date of beginning / completion of tests: 18.12.2012 / 21.12.2012
Place of testing: Laboratory of Material Engineering and Environment

Sample number	Confirmation of conformity/non-conformity with the requirements
European Parliament and Council (EC) Regulation No. 1907/2006 for registration, assessment and authorization of chemicals (REACH) as regards phthalates content	
508/12/P1	Total content of bis(2-ethylhexyl) phthalate (DEHP), dibutyl phthalate (DBP), benzylbutyl phthalate (BBP), below 0.1% in relation to the weight of material with plasticizers Total content of diisononyl phthalate (DINP), diisodecyl phthalate (DIDP) and di-n-octyl phthalate (DNOP) is below 0.1% in relation to the weight of material with plasticizers
	+

signs: „+” – conforming to the requirements „-” – not conforming to the requirements

Note: Confirmation of conformity with the requirements is based on a confidence level of 95% for the expanded uncertainty of measurement results on which the decision of conformity is based.

Leader of testing team: *Monika Gawlik-Jędrzyak, Ph. D. Eng.*

/name/

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Members of testing team:

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Authorized by:

Bożena Rakwicz Ph. D. Eng.

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Approved by

Kierownik Laboratorium
Inżynierii Materiałowej i Środowiska
inż. Beata Gryniewicz-Bylina
/signature and stamp/

Gliwice, 21.12.2012

TEST REPORT CONTAINS THE RESULTS APPLICABLE ONLY TO THE TESTED OBJECT.
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Description of sample

Sample of green, PVC foil.
Sample of foil taken and delivered by the Orderer.

Scope and methods of testing

Item	Tested parameters	Testing methods	Testing procedure and standard
1.	phthalates content	determination of concentration of the following phthalates: di-2-ethyl hexyl phthalate (DEHP), dibutyl phthalate (DBP), benzylbutyl phthalate (BBP), diisodecyl phthalate (DIDP), di-n-octyl phthalate (DNOP), diisononyl (DINP) in the solvent extract from the sample material was realized by gas chromatography coupled with mass spectrometry	PB-DLS/12, 8 th edition; 2012
		determination of phthalates content by the computational method	

Results

Item	Sample No.	Phthalate content [%]					
		DEHP	U	DBP	U	BBP	U
1.	508/12/P1	< 0.05	-	< 0.05	-	< 0.05	-
		DNOP	U	DIDP	U	DINP	U
		< 0.05	-	< 0.05	-	< 0.05	-

Notice: measurements uncertainty U is an extended uncertainty at confidence level 95% and extension coefficient k = 2, according to the IO-DLS/03 general instruction.

The results and their uncertainty refer only to the tested sample and not to the product batch/substance/ material the sample was taken from.

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-END OF THE REPORT-