

DIVISIONE:
DIVISION: **TESTING-CERTIFICAZIONE**

LABORATORIO:
LABORATORY: **Materiali**

RAPPORTO DI PROVA <i>(Test Report)</i>		Pag. 1 di/of
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N°	0849\FPMMATs\17	Data: 12/10/2017 <i>Date:</i>

IDENTIFICAZIONE E DESCRIZIONE DEL CAMPIONE:
SPECIMEN DESCRIPTION:

PVC-P 1XXX/YY

DATI IDENTIFICATIVI DEL CLIENTE:
CLIENT:

INDUSTRIE ILPEA S.p.A.
VIALE INDUSTRIA, 887
21023 MALGESSO (VA)

NORMA DI RIFERIMENTO:
REFERENCE STANDARD:

RoHS Directive 2011/65/EU

<p>DISTRIBUZIONE ESTERNA: <i>OUTSIDE DISTRIBUTION:</i></p> <p style="text-align: center;">INDUSTRIE ILPEA S.p.A.</p>	<p>DISTRIBUZIONE INTERNA: <i>INSIDE DISTRIBUTION:</i></p> <p style="text-align: center;">Copy : Head of Division</p>
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ENTE DI ACCREDITAMENTO:
ACCREDITATION BODY:

Mod.37 - Rev.8 - Società a Socio Unico soggetto ad attività di direzione e coordinamento di IMQ spa



GENERALITIES

- Sample receiving date: 02/10/2017
- Analysis start date: 28/11/2016
- Analysis end date: 11/10/2017

- Deviation from test methods: NO

SAMPLE DESCRIPTION

PVC-P 1XXX/YY

SAMPLING

The initial sampling has been done by the customer.

The sampling for the test has been done drawing casually part of the sample in our possession.

DECLARATION

The test results of the present report are related exclusively to the tested sample.

The present test report cannot be partially reproduced without the authorization of CSI managing Director.

PERFORMED DETERMINATIONS

ROHS: Br, Hg, Cd, Cr, Pb BY XRF ANALYSIS

Analysis of Bromine, Cadmium, Chromium, Lead and Mercury by XRF after liquid nitrogen sample grinding or powdering. In case of peaks areas higher than the stated limit of detection, a quantification by ICP-OES or GC-MS (only for brominated compounds) will be performed.

LOD: 5-20 mg/kg

Limits according to 2011/65/EC

Compound or element	limit	
Cadmium (Cd)	0.01 %	(**) For copper alloys is permitted a concentration of 4%. for aluminum alloys is allowed a concentration of 0.4% for steels it is allowed a concentration 0.35%.
Lead (Pb)	0.1% ^(**)	
Mercury (Hg)	0.1%	
Chromium (Cr VI)	0.1%	
PBBs	0.1%	
PBDEs (DecaBDE included)	0.1%	
DEHP	0.1%	
BBP	0.1%	
DBP	0.1%	
DIBP	0.1%	

The identification and quantification of PBBs and PBDEs was done by GC – MS SIM acquisition, after extraction with solvent, concentration and injection. An external calibration with certificate standard was done in the same conditions.

LOD: 10 mg/kg

The identification and quantification of PHTHALATES was done by GC – MS SCAN acquisition, after extraction with solvent, concentration and injection. An external calibration with certificate standard was done in the same conditions.

LOD: 10 mg/kg



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RESULTS

ROHS: Br, Hg, Cd, Cr, Pb BY XRF ANALYSIS

PVC-P 1XXX/YY		
	Obtained value (%)	Limits ⁽¹⁾ (%)
Cadmium (Cd)	<LOD	0.01
Lead (Pb)	<LOD	0.1
Mercury (Hg)	<LOD	0.1
Chromium (Cr)	<LOD	0.1
Bromine (Br) ^{(2) (3)}	<LOD	0.1
DEHP	<LOD	0.1
BBP	<LOD	0.1
DBP	<LOD	0.1
DIBP	<LOD	0.1

⁽¹⁾ Refer to Annex III of the 2011/65/EU directive for applications exempted from the restriction in Article 4(1)

⁽²⁾ Polybrominated bihenyls

⁽³⁾ Polybrominated diphenyl ethers

DATA
Date

Settore Food Packaging Materials
Food Packaging Materials Sector

Area Testing
Testing Area

12/10/2017

Alberto Taffurelli

Ing. P. Fumagalli

Documento firmato digitalmente ai sensi del D. Lgs. N. 82 del 7 Marzo 2005 e successive modifiche