



**INSTITUT PRO TESTOVÁNÍ A CERTIFIKACI, a. s.**  
třída Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic

**Testing Laboratory No. 1004**

accredited by ČIA according to ČSN EN ISO/IEC 17025:2018



Testing laboratory \* Calibration laboratory \* Product certification body \* Management systems certification body  
Inspection body \* Authorized body \* Notified body

Number of pages: 6

Page : 1 ref. No. 412111311-01

## ACCREDITED LABORATORY TEST REPORT ref. No. 412111311-01

**Client:** RDacoustic s.r.o.  
Company registration number: 04585445

**Address:** Svazarmovská 111, Rožnov pod Radhoštěm, 75661, Czech Republic

**Sample:** see sample description on the page No. 2

**Sample received on:** February 1, 2022

**Report elaborated by:** Dipl. Ing. Iveta Řezníčková

**Place and date of issue:** Zlín, February 17, 2022




Ing. Jiří Samsoněk, Ph.D.  
Head of Accredited Testing Laboratory

**Note: The results given in this Test Report apply only to the sample tested by our laboratory!**  
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**Sample description and identification:**

**Table No. I – Sample description according to the client's declaration**

ITC sample No.	Sample name according to the client	Photo of the sample
412111311/01	PET fiber acoustic panel	

**Sampling method used:**

The test sample was collected and supplied to the laboratory by the client. The laboratory is not responsible for this way of sampling.

**Request:**

The client claimed determination of following parameters:

1. Determination of (Pb, Cd, Hg, Cr<sup>6+</sup>), polybrominated biphenyl's (PBB), polybrominated diphenylethers (PBDE) and phthalic acid esters (DBP, BBP, DEHP, DIBP) in accordance with the requirements of the European Parliament and Council Directive 2011/65/EU, Annex II as amended

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**Part A - Summary and interpretation of the test results (outside the scope of accreditation):**

Technical Standard - Regulation	Requirement – restricted substances	Evaluation
<b>Samples</b>	<b>412111311/01 – PET fiber acoustic panel</b>	
Directive of the European Parliament and Council Directive 2011/65/EU, Annex II (RoHS) as amended	<b>Tested substances:</b> <ul style="list-style-type: none"> <li>- Lead</li> <li>- Mercury</li> <li>- Cadmium</li> <li>- Hexavalent chromium</li> <li>- PBB – for evaluation see Diagram 1</li> <li>- PBDE - for evaluation see Diagram 1</li> <li>- DEHP</li> <li>- BBP</li> <li>- DBP</li> <li>- DIBP</li> </ul>	compliance

**Abbreviations:**

PBB = polybrominated biphenyl's  
 PBDE = polybrominated diphenylethers  
 DEHP = Di(2-ethylhexyl)-phthalate  
 BBP = Benzylbutyl- phthalate  
 DBP = Dibutyl- phthalate  
 DIBP = Diisobutylphthalate

**Evaluation of the test results carried out:**

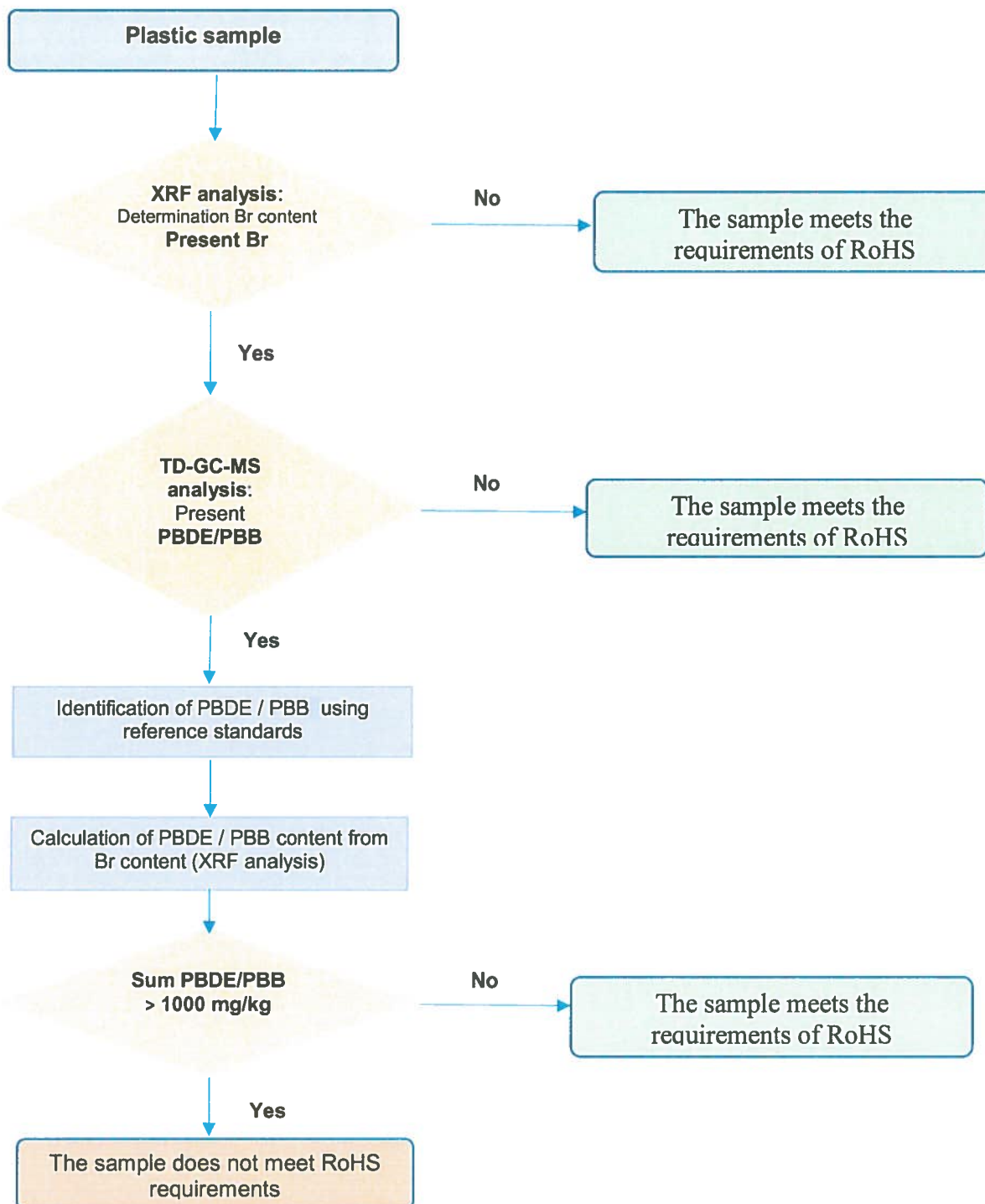
Dipl. Ing. Iveta Řezníčková

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Diagram No. 1 – Evaluation scheme for PBDE and PBB



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## **Part B: Test report in details**

### **Testing method used:**

1. Semiquantitative and quantitative determination of elements by XRF spectrometry method according to ČSN EN 62321-3-1
2. Determination of polybrominated biphenyl's (PBB) and polybrominated diphenylethers (PBDE) calculation from the total bromine content – *outside the scope of accreditation*
3. Determination of phthalates by GC-MS method according to IZP A-99-18, method A

*Where internal test procedures (IZP) are specified in the test methods used, the annex to the Accreditation Certificate shall indicate for each internal procedure the links to the standards on which the internal test procedure is based.*

### **Test conditions:**

1. Determination of elements (Pb, Cd, Hg, Cr, Br); method "Metals in hydrocarbon matrix"
2. Polybrominated biphenyl's (PBB) and polybrominated diphenylethers (PBDE) content was calculated from the total bromine content in the sample for the worst instance of PBB and PBDE presence in the tested sample that means appropriate monobromine-derivate. This compound has the worst ratio of bromine mass to compound mass from all the polybrominated congeners. The result is theoretically maximum amount of these compounds in the mass.
3. According to IZP A-99-18, method A

*The laboratory is not responsible for information received from customer, which could have influence on the validity of the results. Further information required by the standard/standards and not given in this Test Report are available at a request at the Laboratory.*

### **Testing laboratory:**

Test no.: 1-3 Workplace no.: 1 - třída Tomáše Bati 299, Louky, 763 02 Zlín

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**Test results:**

The test results are given in the following table.

**Table No. II – Sample 412111311/01 – PET fiber acoustic panel**

Parameter	Unit	Value obtained <sup>1)</sup>	Uncertainty	Limit <sup>2)</sup>
Pb	% w/w	< 0,001	-	Max. 0,1
Cd	% w/w	< 0,001	-	Max. 0,01
Hg	% w/w	< 0,001	-	Max. 0,1
Cr	% w/w	< 0,001	-	-
Cr <sup>6+</sup> <sup>3)</sup>	% w/w	< 0,001	-	Max. 0,1
Br	% w/w	< 0,001	-	-
PBB <sup>4),6)</sup>	% w/w	< 0,004	-	Max. 0,1
PBDE <sup>5),6)</sup>	% w/w	< 0,004	-	Max. 0,1
BBP	% w/w	< 0,001	-	Max. 0,1
DBP	% w/w	< 0,001	-	Max. 0,1
DEHP	% w/w	< 0,001	-	Max. 0,1
DIBP	% w/w	< 0,001	-	Max. 0,1

**Notes to the table No. II:**

- 1) Symbol "<" means less than the limit of detection of the analytical method
- 2) Limit values according to Annex II of the Directive 2011/65/EU of the European Parliament and of the Council as amended
- 3) Amount of hexavalent chromium was derived from the total chromium content
- 4) Sum of PBB congeners
- 5) Sum of PBDE congeners
- 6) Polybrominated biphenyl's (PBB) and polybrominated diphenylethers (PBDE) content was calculated from the total bromine content in the sample for the worst instance of PBB and PBDE presence in the tested sample that means appropriate monobromine-derivate. The result is theoretically maximum amount of these compounds in the mass.

Ing. Daniel Vít

Head of the laboratory of analytical chemistry and microbiology

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