



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



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

Number of pages: 3

Page : 1 ref. No. 412107207

Sample description and identification:

The client supplied for EN testing a sample of brown colored wood composite with HDPE. The sample description is in the Table 1.

Table No. 1 - Sample description according to the client's declaration

ITC sample No.	Sample name according to the client	Photo of sample
No. 41210720701		

**ACCREDITED LABORATORY  
TEST REPORT  
ref. No. 412107207**

Sampling method used:

The samples were supplied to the laboratory by the client. The laboratory is not responsible for mistakes caused by the wrong way of sampling.

**Client:** WPC-WOODPLASTIC a.s.  
Company registration number: 24176851

**Address:** Na Folimance 2154/17, Vinohrady, Praha 2, 120 00, Czech Republic

**Sample:** 1 sample of brown colored wood composite with HDPE, see sample description on the page No. 2

**Sample received on:** March 14, 2017

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

**Place and date of issue:** Zlín, April 5, 2017



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

**Note: The results given in this Test Report apply only to the sample tested by our laboratory!**  
Without a written consent by Institut pro testování a certifikaci, a.s. Zlín, the Test Report may not be reproduced unless as a whole!

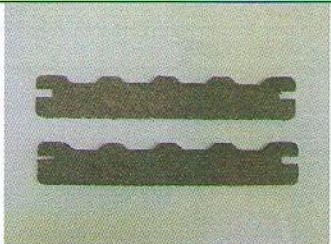




**Sample description and identification:**

The client supplied for the testing a sample of brown colored wood composite with HDPE. The sample description is in the Table I.

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

ITC sample No.	Sample name according to the client	Photo of sample
No. 412107207/01	Brown colored wood composite with HDPE	

**Sampling method used:**

The samples were supplied to the laboratory by the client. The laboratory is not responsible for mistakes caused by the wrong way of sampling.

**Request:**

The client claimed determination of migration of certain elements according to ČSN EN 71-3+A1 in accordance with requirements of European parliament and Council regulation No.2009/48/ES from June 18, 2009 about the safety of toys.

**Testing method used:**

1. Determination of migration of certain elements by ICP-MS method according to ČSN EN 71-3+A1
2. Determination of hexavalent chromium migration by means of LC-ICP-MS method according to ČSN EN 71-3+A1

**Test conditions:**

Ad1.-2. The leachate was prepared according to ČSN EN 71-3+A1 into the 0,07mol/l HCl  
Migration test temperature/time : (37±2) °C / 2 hours  
Migration ratio 4g/100ml of HCl solution

Further information required by the standard/standards and not given in this Test Report is available on a request at the Laboratory.

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

Without a written consent by Institut pro testování a certifikaci, a.s. Zlín, the Test Report may not be reproduced unless as a whole!



**Test results:**

The test results are given in the table No. II.

**Table No. II – Sample No. 412107207/01 - brown colored wood composite with HDPE**

Parameter	Unit	Value obtained <sup>1)</sup>	Uncertainty data <sup>2)</sup>	Limit <sup>3)</sup>
Aluminium - Al	mg/kg	< 20,0	-	Max. 70000
Antimony - Sb	mg/kg	< 0,50	-	Max. 560
Arsenic - As	mg/kg	< 0,50	-	Max. 47
Barium - Ba	mg/kg	< 20,0	-	Max. 18750
Boron - B	mg/kg	< 5,0	-	Max. 15000
Cadmium - Cd	mg/kg	< 0,20	-	Max. 17
Chromium Cr - total	mg/kg	< 0,50	-	-
Chromium Cr – trivalent <sup>4)</sup>	mg/kg	< 0,50	-	Max. 460
Chromium - Cr – hexavalent	mg/kg	< 0,005	-	Max. 0,2
Cobalt – Co	mg/kg	< 0,50	-	Max. 130
Copper - Cu	mg/kg	< 5,0	-	Max. 7700
Lead - Pb	mg/kg	< 0,50	-	Max. 160
Manganese - Mn	mg/kg	16,5	1,7	Max. 15000
Mercury - Hg	mg/kg	< 0,50	-	Max. 94
Nickel - Ni	mg/kg	< 0,50	-	Max. 930
Selenium - Se	mg/kg	< 0,50	-	Max. 460
Strontium - Sr	mg/kg	< 5,0	-	Max. 56000
Tin - Sn - total	mg/kg	< 0,20	-	Max. 180000
Tin - Sn – organic <sup>5)</sup>	mg/kg	< 0,20	-	Max. 12
Zinc - Zn	mg/kg	212	22	Max. 46000

Notes to the table No. II:

- 1) Symbol "<" means less than the limit of detection of used analytical method
- 2) Estimation of measurement uncertainty type B – 10 rel. %
- 3) Limit value according to ČSN EN 71-3+A1, category III
- 4) The content of chromium trivalent was calculated from the total and hexavalent chromium content
- 5) The organic tin content was calculated from the total tin content

Ing. Věra Vilímková

Head of the laboratory of analytical chemistry and microbiology

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

Without a written consent by Institut pro testování a certifikaci, a.s. Zlín, the Test Report may not be reproduced unless as a whole!