

# TEST REPORT

100150359  
dated: 2015-06-15

**Name and address of the customer:** EKOPANELY SERVIS s.r.o.  
Jedousov 64  
353 01 Přelouč

**Product name:** EKOPANEL E60

**Test subject and method:**

Determination of volatile organic compounds (VOC): Method No. 100660

- GC-MS with thermodesorption

According to ČSN EN ISO 16000-10, Indoor air - Part 10: Determination of the emission of volatile organic compounds from building products and furnishing - Test chamber method

- Preparation and sampling has been coming from ČSN EN ISO 16000-11, sample analysis has been coming from ISO 16000-6 and ISO 16000-3.

**Test legal basis:** The Decree No. 6/2003 Coll. that determines hygienic limits of chemical, physical and biological characteristics for indoor residential rooms of some buildings.

This Test Report has been issued on the basis of the Test Protocol No.100-052777 dated 15<sup>th</sup> June 2015, issued by the TZÚS Prague - Branch Testing Institute of Light Industries, České Budějovice.

**Evaluation:** EKOPANEL E60

Test results of coating compositions were compared and classified according to requirements of French regulation from the year 2011 on marking of building and decorative products with data about emissions of volatile pollution compounds released from these products.


Sample No.	Sample name	Class
378	EKOPANEL E60	A+

**Conclusion:**

Sample No. 378 comply with requirements of the class A+.

**Test Report made out by:**



  
Libuše Pražáková, M.Sc.  
Technical Head of Laboratory

# T E S T P R O T O C O L

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**Date of sample receipt for testing:** 2015-05-15

**Tests were carried out:** from: 2015-05-15 to: 2015-06-15

**Test was carried out by the laboratory:** Analytic Chemistry Laboratory

**Name and function of the person entitled to sign this Test Protocol:**



  
Libuše Pražáková, M.Sc.  
Technical Head of Laboratory



**Description and identification of the sample:** EKOPANEL E60

**Devices used:** gas chromatograph GC-MS FOCUS with thermodesorption  
liquid chromatograph HPLC YL9100

**Test results:**

Determination of volatile organic substances :

Centre of test was determination of VOC (volatile organic substances) specific emissions released from surface of the building material sample tested. The test was carried out by using a testing cell that was put on building material sample surface tested by a constant temperature, relative humidity and specific air flow.

Total values of VOC were measured on gas chromatograph GC-MS using thermodesorption by ISO 16000-6.

Formaldehyde and other aldehydes and ketones were measured on liquid chromatograph HPLC by ISO 16000-3.

Sampling after 3 days and 28 days at the temperature of 23°C and relative humidity of 50%.

Specific load  $m^2/m^3$  is 1.

Sample No.: 378 – EKOPANEL E60			
Parameters measured	Results after 3 days	Results after 28 days	Extended uncertainty in % rel.
	$\mu g/m^3$	$\mu g/m^3$	
<b>Type of VOC</b>			
Formaldehyd	< 10	< 10	-
Acetaldehyd	< 10	< 10	-
Toluen	< 10	< 10	-
Tetrachlorethylen	< 10	< 10	-
Xylen	< 10	< 10	-
1,2,4-trimethylbenzen	< 100	< 100	-
1,4-dichlorbenzen	< 10	< 10	-
Ethylbenzen	< 100	< 100	-
2-butoxyethanol	< 100	< 100	-
Styren	< 10	< 10	-
<b>VOC</b> - other volatile organic substances			
<b>TVOC</b> - total volatile organic substances	< 10	< 10	-

The uncertainty mentioned is the extended uncertainty calculated by using the extension coefficient equalling 2 and so it corresponds to the significance level by approx. 95%.

Tests carried out by: J. Motis, M.Sc.  
Protocol completed by: T. Salivarová

Note:

*This Test Protocol can be copied as the whole only, in case of using its part, a written approval is necessary of the testing laboratory. Test results are valid for the sample tested only and this Test Protocol does not replace any other documents.*