

TEST REPORT No. 1445

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The 19th of October, 2016

Customer SIA „Conceptum“, Lubanas iela 78, Riga, Latvia
(company name and address)

Producer “Dow Izolan”, Nizhegorodskaya 81, Russian Federation
(if varies from the customer, name and address of the producing company)

Product Insulation of polyisocyanurate (PIR)
(ND mark)

Date of product delivery 06 10 2016

Date of testing 12 10 2016

Testing place JSC “Alzida”, Savanorių Ave. 221, LT-02300 Vilnius, Lithuania
(laboratory name)

Sampling was carried out by customer
(act number, date)

The tests were carried out according to Emissions of organic compounds detected using gas
(testing ND or method description)

with mass spectrometer

Deviations from the testing method _____
(if any were)

TESTING RESULTS are delivered in the test report's page 2.

Test results are valid only for above-mentioned objects. Test report can be duplicated or reprinted only fully. Part of the test report can be duplicated or distributed with permission of the laboratory.

Other information -

Supplements: -



INSULATION OF POLYISOCYANURATE (PIR)

Determination of VOC emission

VOC emission was determined by using gas chromatography with mass spectrometry detector „Shimadzu“ No. C70464470135.

Metrological characteristics of the device:

Measurement range up to 10000 u/s,

Resolution ≥ 2 M,

Sensitivity:

EI 1 pg S/N ≥ 60 (RMS),

CI 100 pg S/N ≥ 150 (RMS),

NCl 100 fg S/N ≥ 100 (RMS),

EI 1pg S/N ≥ 60 (RMS),

EI 100 fg S/N ≥ 60 (RMS),

temperature range (4-450) °C,

pressure to 970 kPa

(to 1200 mL/min)

Qualitative analysis. By using mass spectrometry it was determined that the main organic compounds that are emitting from specimen to the air, are

- Cyclohexanamine, N,N-dimethyl, CAS 98-94-2; codes **C,N,T** (about 45 % of the total emissions)
- 1,4 dioxane, CAS 123-91-1; code **Xn** (about 16 % of the total emissions);
- Cyclobutane, ethyl-, CAS 4806-61-5 (about 6 % of the total emissions);
- Pronane, 1,2-dichoro-, CAS 78-87-5 (about 6 % of the total emissions)

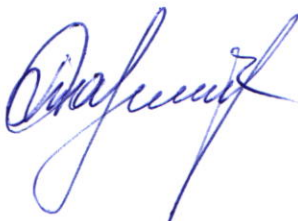
Total emission of VOC contents is about 0,01 % m/m.

For the quantitative chemical analysis (i.e. quantitative determination of compounds) the formation of calibration curves is necessary

The test was carried out by chemist Žydrūnas Stanius

The test report was drawn up by supervisor of testing Natalija Rumianceva

Deputy director
Liudmila Daukšienė



Supervisor of testing
Natalija Rumianceva

