

Entwicklungs- und Prueflabor Holztechnologie GmbH · Zellescher Weg 24 · 01217 Dresden · Germany

Kastamonu Entegre Ağaç San. Tic. A.Ş.
Mr. Ayşe Alpay
Kömürcüoğlu Cad. 4512 Sokak No:6

41400 Gebze, Kocaeli

Turkey

ayalpay@keas.com.tr

Entwicklungs- und Prueflabor
Holztechnologie GmbH
Zellescher Weg 24
01217 Dresden · Germany

Phone: +49 351 4662 0
Fax: +49 351 4662 211
info@eph-dresden.de
www.eph-dresden.de

Dresden,
August 28th, 2017
50-Fia

Test Report Order no. 2517319-A1

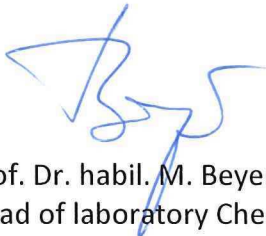
Client: Kastamonu Entegre Ağaç San. Tic. A.Ş.
Kömürcüoğlu Cad. 4512 Sokak No:6
41400 Gebze, Kocaeli
Turkey

Date of order: July 10th, 2017

Order: Determination of the contents of PCP, Lindane and tin

Contractor: EPH – Laboratory Chemical Testing

Engineer in charge: Dr. Andreas Fischer



Prof. Dr. habil. M. Beyer
Head of laboratory Chemical testing

The test report contains 3 pages. Any duplication, even in part, requires written permission of EPH. These test results are exclusively related to the tested material. This test report replaces report 2517319 dated August 14th, 2017.

1 Task and Sample description

On July 10th, 2017, the Entwicklungs- und Prüflabor Holztechnologie GmbH (EPH) received the order to carry out the following analysis on 2 samples:

Receipt of the sample: July 21st, 2017
Amount of sample: 3x PB (200 mm x 200 mm x 10 mm)
3x MDF (200 mm x 200 mm x 18 mm)

The PB-sample was to be analysed in regard to PCP and the MDF-sample in regard to PCP / Lindane and overall tin content. If the tin amount is higher than a certain level, a further analysis of tin organic substances would be carried out.

2 Sample preparation and analysis

Determination of fungicides

The sample was cut to a particle size of less than 1 mm and mixed for the respective sample. 2 g were weighed exactly. For extraction 40 mL toluene and 2 mL 1 M sulfuric acid were added, followed by a 3 h sonication and further shaking for 16 hours. A part of the solution was filtrated, derivatised with acetic anhydride and the PCP was measured with a gas chromatograph using ECD-detection (GC-ECD). Lindane was measured with GC-ECD in another part of each extract. External calibration was performed with calibration standards from commercial sources.

Determination limits for PCP and Lindane (2 g of sample): 0.05 mg/kg

Determination of tin

The sample was dried in a cabinet drier at 105°C until the constant mass was reached. Then, 500 mg of the sample was given into a microwave digestion vessel together with 5 mL concentrated nitric acid and 1 mL H₂O₂. The microwave digestion was executed according to the temperature regime prescribed in AA EPH-50-26. Then, the solution was transferred into 50 mL graduated flask and filled up to the mark. The content of tin was determined by inductively-coupled plasma atomic emission spectrometry (ICP) in compliance with CPSC-CH-E1003-09.1 and ASTM-E1613-04. The test result is the average value of a double determination.

Determination limit for tin: 0.1 mg/kg.

3 Results and evaluation

PCP / Lindane content:	PCP in 10 mm PB	not determinable
	PCP / Lindane in 18 mm MDF	not determinable
Tin content:	in 18 mm MDF	not determinable

In the tested samples neither PCP nor Lindane was determinable. In the tested MDF tin was not determinable.

4 Miscellaneous

Remaining sample will be stored as a control sample for 3 months in the EPH.

A handwritten signature in blue ink, appearing to read 'A. Fischer', with a long horizontal stroke extending to the right.

Dr. Andreas Fischer
Chemist in charge