



RAPPORT

utfärdad av ackrediterat laboratorium
REPORT issued by an Accredited Laboratory

1339

FORMALDEHYDE EMISSION 0.225 m³ CHAMBER TEST

METHOD	Analyscentrum SOP-KEMI-053 equivalent to prEN 717-1
Chamber Size	0.225 m ³
Temp.	23 ± 0.5°C
R.H.	45 ± 3 %
Air Exchange Rate	1 / h
Loading Factor	1 m ² / m ³
Sample Size	Four pieces 0.330 x 0.170 x 0.015 m glued together back to back two and two so only the frontside was open. Total exposed area: 0.225 m ²
Edge Sealing	All edges were sealed

SAMPLE

Type and identification	Engineered 3 Layer Wood Flooring, ASIA-KL-03-38	
Wood species	Oak / Rubberwood / Spruce	
Producer	MWI	
Received from	Mohd Hasan	
Arrival date	-, 2003	
Glue	Face to core: 1352 (100) / Water (45) / 2761B (30) Core to veneer: 1357 (100) / Water (45) / 2725B (20)	
Glue spread	Face to core: 200-210 g/m ²	Core to veneer: 190-198 g/m ²
Hardener	Face to core: 2768B	Core to veneer: CL 03032 (20 %)
Hardener spread	Face to core: 19.5-21 g/m ²	
Manufactured	November 22, 2003	Sampled November 23, 2003
Test Period	Week 5-6, 2004	

TEST RESULT

Steady-state emission value	0.02 mg formaldehyde / m ³ air. Emission curve in Figure 1.
Test duration	255 hours

NOTES

- In order to determine the steady state concentration one analysis per day for a period of 11 days have been made. The emission value is calculated from the power function extrapolated to 28 days, see figure 1. The shorter sampling period has negligible effect on the resulting emission value; see report 99 AC 428.
- The measurement uncertainty is 15 % (including a coverage factor of 2).
The evaluation of the uncertainty is based on the principles given in *The Guide to the Expression of Uncertainty in Measurement*, 1993 (GUM) and has been made according to SP Rapport 2000:17 (see report 02 AA 032-rev 1).

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Samples will be stored for one month after the date of report if nothing else is agreed

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Company	Casco Adhesives (Asia) Pte Ltd, 14 Sungei Kadut Way, Singapore 728788		
Distribution	Daniel Kinberg, Niclas Wallin, e-mail: Catherine Lee, Mohd Hasan, Phan Dinh Thay		
Project number	4497-04	Primary data	Formaldehyd 151
Keywords	Emission; formaldehyd; kammartest; MWI		
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Figure 1.

