




ENVIRONMENTAL CHAMBER TEST REPORT WITH MODELING					
<b>Product Description:</b>		TAPETEX WOVEN TEXTILES OF CELLULOSIC FIBRES (LINEN, COTTON, VISCOSE) AND SYNTHETIC FIBRES (POLYESTER, NYLON) ON A BACKING OF 70% WOODPULP REINFORCED WITH 30% POLYESTER. TESTED QUALITY 68-1991.			
<b>SUMMARY</b>		<b>Environment</b>	<b>TVOC</b>	<b>Formaldehyde</b>	<b>Total Aldehydes</b>
	<b>GREENGUARD</b>	Office	✓	✓	✓
	<b>GREENGUARD Gold</b>	Office	✓	✓	✓
		Classroom	✓	✓	✓
✓ - predicted to meet criteria; X - predicted to exceed criteria					

This test data is provided for general informational purposes only. The data indicate the level of emissions from the designated product and how they compare to the emission criteria of the GREENGUARD IAQ standard. This data does not imply that the product has been qualified to meet the requirements of the GREENGUARD Certification program nor does it imply that the product is or is not certified by the GREENGUARD Certification program.

<b>Manufacturer Information</b>	TAPETEX BV CHURCHILLAAN 10 5705 BK HELMOND THE NETHERLANDS
<b>Authorized by</b>	 Allyson M. McFry Chemistry Laboratory Director

SAMPLE INFORMATION	
<b>Testing Laboratory</b>	UL Environment • 2211 Newmarket Parkway • Marietta, GA 30067-9399 USA
<b>Test Description</b>	The product was received by UL Environment as packaged and shipped by the customer. The package was visually inspected and stored in a controlled environment immediately following sample check-in. Just prior to loading, the product was unpackaged, prepared for the required loading to expose the top surface side only. The sample was placed inside the environmental chamber, and tested according to the specified protocol.
<b>Date Received</b>	January 23, 2020
<b>Test Period</b>	1/28/2020 - 1/29/2020
<b>Area</b>	one-sided area = 0.0824 m <sup>2</sup>
<b>Chamber Volume</b>	0.0863 m <sup>3</sup>
<b>Product Loading</b>	0.95 m <sup>2</sup> /m <sup>3</sup>
<b>Test Conditions</b>	1.00 ± 0.05 ACH 50% RH ± 5% RH 23° C ± 1° C

The temperature range specification is 23°C ± 1°. The actual temperature range listed above may vary slightly. If the range is outside this specification, data was reviewed to ensure a negative impact did not occur.

MODELING PREDICTED CONCENTRATION PARAMETERS					
Certification Program	Environment Basis	Product Usage	Surface Area (m <sup>2</sup> )	Room Volume (m <sup>3</sup> )	ACH (1/hr)
GREENGUARD and GREENGUARD Gold Office	CDPH/EHLB/Standard Method	wall	33.4	30.6	0.68
GREENGUARD Gold Classroom	CDPH/EHLB/Standard Method	wall	94.6	231	0.82

RESULTS						
Analyte	24 Hour Emission Factor (µg/m <sup>2</sup> •hr)	Certification Criteria		168 Hour Predicted Concentration		
		GREENGUARD	GREENGUARD GOLD	GREENGUARD D	GREENGUARD Gold	
					Office	Classroom
TVOC	287	≤ 0.5 mg/m <sup>3</sup>	≤ 0.22 mg/m <sup>3</sup>	0.22 mg/m <sup>3</sup>	0.097 mg/m <sup>3</sup> ††	0.070 mg/m <sup>3</sup>
Formaldehyde	21.9	≤ 0.05 ppm	≤ 0.0073 ppm	0.014 ppm	0.0060 ppm††	0.043 ppm
Total Aldehydes	21.9	≤ 0.1 ppm	≤ 0.043 ppm	0.014 ppm	0.014 ppm	0.004 ppm

††336 hour predicted concentration.

IDENTIFIED INDIVIDUAL VOLATILE ORGANIC COMPOUNDS AT 24 ELAPSED EXPOSURE HOURS		
CAS Number	Compound Identified	Emission Factor (µg/m <sup>2</sup> •hr)
106-62-7	1-Propanol, 2-(2-hydroxypropoxy)	151
110-98-5	2-Propanol, 1,1'-oxybis- (Dipropylene glycol)	117
105-60-2	i-Caprolactam (2H-Azepin-2-one, hexahydro)†	15.6
1124-15-8	1H-Pyrazole-1-carbothioamide, 3,5-dimethyl-*	7.0
20324-32-7	2-Propanol, 1-(2-methoxy-1-methylethoxy)	6.1
71-36-3	1-Butanol (N-Butyl alcohol)†	4.0

\*Indicates NIST/EPA/NIH best library match only based on retention time and mass spectral characteristics.

†Denotes quantified using multipoint authentic standard curve. Other VOCs quantified relative to toluene.

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Test Report #: 1000874619-2846404R1

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Supersedes Test Report #: 1000874619-2846404

TARGET LIST ALDEHYDES AT 24 ELAPSED EXPOSURE HOURS		
CAS Number	Compound Identified	Emission Factor (µg/m <sup>2</sup> •hr)
4170-30-3	2-Butenal	BQL
75-07-0	Acetaldehyde	BQL
100-52-7	Benzaldehyde	BQL
5779-94-2	Benzaldehyde, 2,5-dimethyl	BQL
529-20-4	Benzaldehyde, 2-methyl	BQL
620-23-5 / 104-87-0	Benzaldehyde, 3- and/or 4-methyl	BQL
123-72-8	Butanal	BQL
590-86-3	Butanal, 3-methyl	BQL
50-00-0	Formaldehyde	<b>21.9</b>
66-25-1	Hexanal	BQL
110-62-3	Pentanal	BQL
123-38-6	Propanal	BQL

Analyses based on EPA Compendium Method TO-17 and ASTM D 6196 for VOCs by thermal desorption followed by gas chromatography/mass spectrometry (TD/GC/MS), and EPA Method TO-11A and ASTM D 5197 for selected aldehydes by high performance liquid chromatography (HPLC).

BQL denotes below quantifiable level of 0.04 µg based on a standard 18 L air collection volume for TVOC and individual VOCs and 0.1 µg based on a standard 45 L air collection volume for formaldehyde and total aldehydes.

Testing followed UL 2821, "GREENGUARD Certification Program Method for Measuring and Evaluating Chemical Emissions From Building Materials, Finishes and Furnishings Using Dynamic Environmental Chambers" 2013.

This test is accredited and meets the requirements of ISO/IEC 17025 as verified by ANSI National Accreditation Board. Refer to certificate and scope of accreditation AT-1297.