

THE CARPET	THE CARPET & RUG INSTITUTE, INC. GREEN LABEL PLUS PROGRAM 14 DAY TEST								
Office	Meets	Criteria	✓	Ex	ceeds Criteria				
Classroom	Meets	Criteria	✓	Ex	ceeds Criteria				
CRI Ident	ification	20240904-6	32242 15X						
Date C	ollected	January 30	, 2025						
Date R	Received	February 3,	2025						
Testing Lal	boratory	UL Environ	ment • 2211 Newmarke	et Par	kway • Marietta (GA 30067-9399 USA			
Т	est Date	February 7, 2025 - February 21, 2025							
Product Area B	Exposed	one-sided area = 0.0361 m ²							
Environmental Cha and	mber ID Volume	SD5 - 0.0862 m³							
Product	Loading	0.42 m²/m³							
Test Chamber Co	nditions	Air change rate: 1.00 ± 0.05 1/h Inlet air flow rate: 0.0862 ± 0.004 m³/h Relative Humidity: 50% RH $\pm 5\%$							
Test	Method	Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissio from Indoor Sources using Environmental Chambers Version 1.2 (California Secti 01350) ASTM D 5116-17 and ASTM D 7339-18							
Autho	orized by	Allyson M. McFry Chemistry Laboratory Director							

^{*}The temperature range specification is $23^{\circ}C \pm 1^{\circ}$. 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.

Sample tested in accordance with the CRI Green Label Plus Program, and the results are presented in Tables 1, 2, and 3 for the evaluation for compliance as stated in The Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources using Environmental Chambers.

Standard Test Methodology for Determining Volatile Organic Compound Emission Factors From Carpet and Associated Materials under Defined Test Conditions Using Small Environmental Chambers. Based on EPA Carpet Policy Dialogue Method accepted September, 1991 and reviewed by CA-DHS.

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.

PHOTOGRAPH OF SAMPLE



TABLE 1

CRI Identification	CRI Identification 20240904-B2242 15X								
	COMPARISON OF DATA TO METHOD REQUIREMENTS AT 96 HOURS FOLLOWING 10 DAYS OF CONDITIONING								
			GLP TARG	ET LIST					
Compound	CAS Number	CRI Criteria (µg/m³)	Chamber Concentration (µg/m³)	Emission Factor ^{††} (µg/m²•hr)	Conce	dicted entration n/m³)**	Meets Criteria?		
		(µg/III)	(μg/)	(µg/III III)	Office	Classroom	Office	Classroom	
1-Methyl-2-pyrrolidinone	872-50-4	160	BQL	BQL	BQL	BQL	Yes	Yes	
2-Ethylhexanoic Acid	149-57-5	25	BQL	BQL	BQL	BQL	Yes	Yes	
4-Phenylcyclohexene (4-PC)	4994-16-5	27	BQL	BQL	BQL	BQL	Yes	Yes	
ε-Caprolactam (2H- Azepin-2-one, hexahydro)	105-60-2	100	19	45	24	21	Yes	Yes	
Nonanal	124-19-6	13	BQL	BQL	BQL	BQL	Yes	Yes	
Octanal	124-13-0	7.2	BQL	BQL	BQL	BQL	Yes	Yes	

TABLE 2

COMPARISON OF DATA TO CDPH/EHLB/STANDARD METHOD REQUIREMENTS								
Compound	CAS Number	½ CREL Criteria	Chamber Concentration	Emission Factor ^{††} (µg/m²•hr)	Predicted Concentration (μg/m³)**		Meets Criteria?	
		(µg/m³)	(µg/m³)	(µg/III 'III)	Office	Classroom	Office	Classroom
Acetaldehyde	75-07-0	70	BQL	BQL	BQL	BQL	Yes	Yes
Benzene	71-43-2	1.5	BQL	BQL	BQL	BQL	Yes	Yes
Carbon disulfide	75-15-0	400	BQL	BQL	BQL	BQL	Yes	Yes
Carbon tetrachloride	56-23-5	20	BQL	BQL	BQL	BQL	Yes	Yes
Chlorobenzene	108-90-7	500	BQL	BQL	BQL	BQL	Yes	Yes
Chloroform	67-66-3	150	BQL	BQL	BQL	BQL	Yes	Yes
Dichlorobenzene (1,4-)	106-46-7	400	BQL	BQL	BQL	BQL	Yes	Yes
Dichloroethylene (1,1)	75-35-4	35	BQL	BQL	BQL	BQL	Yes	Yes
Dimethylformamide (N,N-)	68-12-2	40	BQL	BQL	BQL	BQL	Yes	Yes
Dioxane (1,4-)	123-91-1	1,500	BQL	BQL	BQL	BQL	Yes	Yes
Epichlorohydrin	106-89-8	1.5	BQL	BQL	BQL	BQL	Yes	Yes
Ethylbenzene	100-41-4	1,000	BQL	BQL	BQL	BQL	Yes	Yes
Ethylene glycol	107-21-1	200	BQL	BQL	BQL	BQL	Yes	Yes
Ethylene glycol monoethyl ether acetate	111-15-9	150	BQL	BQL	BQL	BQL	Yes	Yes
Ethylene glycol monoethyl ether	110-80-5	35	BQL	BQL	BQL	BQL	Yes	Yes
Ethylene glycol monomethyl ether acetate	110-49-6	45	BQL	BQL	BQL	BQL	Yes	Yes

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СОМРА	COMPARISON OF DATA TO CDPH/EHLB/STANDARD METHOD REQUIREMENTS							
Compound	CAS Number	½ CREL Criteria	Chamber Concentration		Predicted Concentration (μg/m³)**		Meets Criteria?	
	(μg/m³) (μg/m³) (μg/m²•hr)		(µg/)	Office	Classroom	Office	Classroom	
Ethylene glycol monomethyl ether	109-86-4	30	BQL	BQL	BQL	BQL	Yes	Yes
Formaldehyde	50-00-0	9.0***	BQL	BQL	BQL	BQL	Yes	Yes
Hexane (n-)	110-54-3	3,500	BQL	BQL	BQL	BQL	Yes	Yes
Isophorone	78-59-1	1,000	BQL	BQL	BQL	BQL	Yes	Yes
Isopropanol	67-63-0	3,500	BQL	BQL	BQL	BQL	Yes	Yes
Methyl chloroform	71-55-6	500	BQL	BQL	BQL	BQL	Yes	Yes
Methyl t-butyl ether	1634-04-4	4,000	BQL	BQL	BQL	BQL	Yes	Yes
Methylene chloride	75-09-2	200	BQL	BQL	BQL	BQL	Yes	Yes
Naphthalene	91-20-3	4.5	BQL	BQL	BQL	BQL	Yes	Yes
Phenol	108-95-2	100	BQL	BQL	BQL	BQL	Yes	Yes
Propylene glycol monomethyl ether	107-98-2	3,500	BQL	BQL	BQL	BQL	Yes	Yes
Styrene	100-42-5	450	BQL	BQL	BQL	BQL	Yes	Yes
Tetrachloroethylene (perchloroethylene)	127-18-4	17.5	BQL	BQL	BQL	BQL	Yes	Yes
Toluene	108-88-3	150	BQL	BQL	BQL	BQL	Yes	Yes
Trichloroethylene	79-01-6	300	BQL	BQL	BQL	BQL	Yes	Yes
Vinyl acetate	108-05-4	100	BQL	BQL	BQL	BQL	Yes	Yes
Xylenes (m-, o-, p-)	108-38-3, 95-47-6, 106-42-3	350	BQL	BQL	BQL	BQL	Yes	Yes

BQL denotes below quantifiable level of $0.04~\mu g$ for individual VOCs, with the exceptions benzene and epichlorohydrin which have a QL of $0.02~\mu g$, based on a standard 18 L air collection volume.

^{††}The emission factor (EF) is calculated from the chamber concentration (CC), the chamber air change rate (N_C), the chamber volume (V_C), and the product area exposed in the chamber (A_C) as: EF = (CC*V_C*N_C)/A_C.

^{**}The predicted building exposure concentration (BC) is calculated from the emission factor (EF), the building air change rate (N_B), the building room volume (V_B), and the product area exposed in the building room (A_B) as: BC = (EF*A_B)/(V_B*N_B). Prediction based on a standard office floor usage of 11.1 m² in a 30.6 m³ room with 0.68 ACH or on a standard classroom usage of 89.2 m² in a 231 m³ room with 0.82 ACH.

^{***}Guidance value per CA Standard Method

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TABLE 3

CRI	CRI Identification 20240904-B2242 15X									
TVOC AND FORMALDEHYDE CHAMBER CONCENTRATIONS, EMISSION FACTORS, AND PREDICTED AIR CONCENTRATIONS										
Elapsed Exposure	Chamber Cor (µg/n		Calculated Emission Factors (μg/m²•hr)		Predicted Air Concentration** (μg/m³)					
Hour*			(1-9	Office			Classroom			
	Formaldehyde	TVOC	Formaldehyde	TVOC	Formaldehyde	TVOC	Formaldehyde	TVOC		
264	BQL	15	BQL	36	BQL	19	BQL	17		
288	BQL	10	BQL	25	BQL	13	BQL	12		
336	BQL	10	BQL	25	BQL	13	BQL	12		

BQL denotes below quantifiable level of 0.04 µg for TVOC based on a standard 18 L air collection volume or 0.1 µg for formaldehyde based on a standard 45L air collection volume.

TVOC is the sum of all identified and unidentified peaks calibrated to toluene.

TABLE 4

CRI Identif	ication	on 20240904-B2242 15X							
TEN MOST ABUNDANT IDENTIFIED INDIVIDUAL VOLATILE ORGANIC COMPOUNDS (VOCs) AND/OR ALDEHYDES AT 96 HOURS FOLLOWING 10 DAYS OF CONDITIONING									
CAS Number			Chamber Concentration (µg/m³)	Calculated Emission Factor (µg/m²•hr)	Calculated Predicted Exposure Concentration (µg/m³)**				
			(µg/iii)	(μg//// -/// /	Office	Classroom			
105-60-2	Caprol	actam [†]	19	45	24	21			

VOC data obtained by scanning GC/MS; identification of compound made by retention time and mass spectral characteristics.

^{*}Exposure hours are nominal (±1 hour) following 10 day conditioning period in chamber.

^{**}Allowable Concentration is predicted based on a a standard office floor usage of 11.1 m² in a 30.6 m³ room with 0.68 ACH or on a standard classroom usage of 89.2 m² in a 231 m³ room with 0.82 ACH. This value is for reference only.

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

[†]Denotes quantified using multipoint authentic standard curve (post-calibration). Other VOCs quantified relative to toluene.

[‡] Indicates compound identified and quantified by DNPH derivitization and HPLC/UV analysis.

^{**}Allowable Concentration is predicted based on a a standard office floor usage of 11.1 m² in a 30.6 m³ room with 0.68 ACH or on a standard classroom usage of 89.2 m² in a 231 m³ room with 0.82 ACH. This value is for reference only.

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TABLE 5

CRI Identification	20240904-B2242 15X					
PREDICTED AIR CONCENTRATIONS AND REGULATORY INFORMATION AT 96 HOURS FOLLOWING 10 DAYS OF CONDITIONING						
	Predicted E		✓ Indicates Presence On List			
Compound	Concentration** (µg/m³)		CHRONIC REL	CAL PROP. 65	CAL TOXIC AIR	
	Office	Classroom	INEL		CONTAININAIT	
Caprolactam [†]	24	21			√(V)	

^{**}Allowable Concentration is predicted based on a a standard office floor usage of 11.1 m² in a 30.6 m³ room with 0.68 ACH or on a standard classroom usage of 89.2 m² in a 231 m³ room with 0.82 ACH. This value is for reference only.

Chronic REL: California Office of Environmental Health Hazard Assessment (OEHHA), Chronic Reference Exposure Levels

() = Found in Listing (Criterion)

CAL Prop. 65 (update December 29, 2023): California Health and Welfare Agency, Proposition 65 Chemicals

1 = known to cause cancer

2 = known to cause reproductive toxicity

CAL Toxic Air Contaminant:

- I) Substances identified as Toxic Air Contaminants, known to be emitted in California, with a full set of health values reviewed by the Scientific Review Panel.
- IIA) Substances identified as Toxic Air Contaminants, known to be emitted in California, with one or more health values under development by the Office of Environmental Health Hazard Assessment for review by the Scientific Review Panel.
- IIB) Substances NOT identified as Toxic Air Contaminants, known to be emitted in California, with one or more health values under development by the Office of Environmental Health Hazard Assessment for review by the Scientific Review Panel.
- III) Substances known to be emitted in California, and are NOMINATED for development of health values or additional health values.
- IVA) Substance identified as Toxic Air Contaminants, known to be emitted in California, and are TO BE EVALUATED for entry into Category III.
- IVB) Substance NOT identified as Toxic Air Contaminants, known to be emitted in California, and are TO BE EVALUATED for entry into Category III.
- V) Substance identified as Toxic Air Contaminants, and NOT KNOWN TO BE EMITTED from stationary source facilities in California based on information from the AB 2588 Air Toxic "Hot Spots" Program and the California Toxic Release Inventory.
- VI) Substances identified as Toxic Air Contaminants, NOT KNOWN TO BE EMITTED from stationary source facilities in California, and are active ingredients in pesticides in California.

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Green Label Plus M Indoor Air Quality Testing Prog The Carpet and Rug Institute, Ir PO Box 2046 Owner Georgia 30722 Ul Phone H 106, 428 3127 Email go Scandel no sig Aww cardel nog org

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Description 20240904-B2242 15X

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		ount Manager prior to sending	in sai CUZBCJ022
	ceive Date 2/3/25	Receive Time	11:25 BM
Sample	/ Package	Sample Condition	1
Condition U	pon Arrival Acceptable Not Acceptable	Notes	41.0K
Rece	eiver Name	Receiver Signature	Jan Danton
Sample / Te	est Information		
Sample	Code 20240904-B2242	Program Category	Carpet
	ce sample code on all applicable documentation	Product Category	15X
Type of	Product Modular Tile	Test Type	Biennial
Application	Method N/A	Applicator Specification	NIA
Applicat	ion Rate M/A		
GI P Progra	m Manager Information		
- 0	Sonya Stephens Office (706) 428-2	2137 Email ssteph	ens@carpet-rug org
Company Ir	nformation	Company Contacts	
		Facility Contact	
Company	Belgotex Floorcoverings (Pty) Ltd.	Office	100
Name	20 Chesterfield Road	GLP Coordinator	
Facility	Pietermaritzburg 3201	Mobile	N/A
Address	South Africa		+27 (0)33 897 7547
		Email	Thandoluhle ngwenya@belgotex.co.za
Collection	Information	Person	Collecting Sample
Date Manuf		7371	me Carlo Winkel
Time Manuf	factured 69.08 Time Collected 0	7 cm Pho	one 071 0208482
Collection L		Signat	
Roll	/ Batch TX 1057 Style /P	roduct Name Eq.	the Tape Jet Black
Shipping /	Tracking Information		
		Date Shipped	
	UL Solutions	Time Shipped	
Laboratory	2211 New Market Pkwy SE Ste 106	Carrier	Pile
Information	Marietta, GA 30067	Tracking #	+ - + + + + + + + + + + + + + + + + + +
2.00200120030	United States (770) 933-0638	Shipper Name	-
	((10) 000 0000	Phone	000
		Signature	BOTHE

Green Label Plus Chain of Custody
Version.Revision 1.03 Revised April 30 2024
Supersedes Green Label Plus Chain of Custody (Version 1 02)

Approved By PP&S Panel Date April 18 2024

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