



Attn: **Andres Abad**
Masters Building Products
10360 NW 53rd St
Sunrise, FL 33351

Phone: **954-726-4515**
 Fax: **Not Available**

Project: **Parkay**

**CARB 2
 COMPLIANT***

Date Collected: **Not Provided**
 Date Received: **08/08/2015**
 Date Analyzed: **08/17/2015**

Reported Date: 08/21/2015 Current Rev: R0

**Analysis of Bulk Samples for Free Formaldehyde (HCHO) Off-Gassing
 by Impinger Method, HPLC/UV via Modified NIOSH 2016**

Sample Identification: Parkay

Lab Sample #: 281501654-0001

Test Parameter	Sample Location/Description	HCHO Result (ug)	HCHO Result (ppm)	HCHO R.L. (ppm)	Comments
Formaldehyde	Flooring (Other)	<0.050	<0.0034	0.0034	No harmful levels of formaldehyde found.

Agency Name	Acronym	Concern Level	Limit (ppm)	Limit Name	Limit Abbr.
Occupational Safety and Health Administration American Conference of Government Industrial Hygienists US Department of Housing and Urban Development	OSHA	↑	0.75	Permissible Exposure Limit	PEL
	ACGIH		0.3	Ceiling Concentration (2014)	C
	HUD		0.3	Particle Board	
California Air Resource Board	CARB	↔	0.2	Plywood	
			0.13	Thin Medium Density Fiberboard (MDF)	ATCMP II
United States Green Buildings Council National Institute for Occupational Safety and Health Federal Emergency Management Agency Agency For Toxic Substances Disease Registry California Office Of Environmental Health Assessment	OEHHA	↓	0.11	Medium Density Fiberboard (MDF)	ATCMP II
			0.09	Particle Board	ATCMP II
			0.05	Hardwood Plywood (HWPW)	ATCMP II
			0.027	Leadership in Energy and Environmental Design	LEED
			0.016	Recommended Exposure Limit	REL
Parkay Floors Formaldehyde Level	EPA	↔	<0.0034	Unlikely to Contribute to Indoor Air Levels	
			0.0018	Risk Based Concentration	RBC

Concern Level:

- Probable Contributor to Indoor Air Levels
- Likely Contributor to Indoor Air Levels
- Possible Contributor to Indoor Air Levels
- Unlikely to Contribute to Indoor Air Levels

OSHA PEL, 29CFR1910.1028; http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=10075 accessed 3/12/15
 ACGIH Ceiling, 2014 TLVs and BEIs Booklet, errata; <http://www.acgih.org/TLV/>, accessed 3/12/15
 HUD 24CFR 3280.308 Formaldehyde emission controls ...; <http://www.gpo.gov/fdsys/pkg/CFR-2001-title24-vol5/pdf/CFR-2001-title24-vol5-sec3280-308.pdf>, accessed 3/12/15
 CARB ATCM, Final Regulation Order, Airborne Toxic Control Measure...; <http://www.arb.ca.gov/regact/2007/compwood07/fro-final.pdf>, accessed 3/12/15
 USGBC LEEDS Std.-"LEED 2009 For New Construction... V3" (2009); <http://www.usgbc.org/ShowFile.aspx?DocumentID=5546>, accessed 3/12/15
 NIOSH Recommended Exposure Limit (REL); <http://www.cdc.gov/niosh/npg/npgq0293.html> accessed 3/12/15
 FEMA THU Procurement Specification; <https://www.fema.gov/news-release/2008/04/11/new-fema-procurement-specifications-require-significantly-reduced>, accessed 3/12/15
 ATSDR MRLs; http://www.atsdr.cdc.gov/mrls/mrls_list.html, accessed 3/12/15
 CA OEHHA cRELs; <http://www.oehha.ca.gov/air/allrels.html>, accessed 3/12/15
 USEPA Region III RBCs; http://www.epa.gov/reg3hwd/risk/human/rb-concentration_table/Generic_Tables/docs/resair_sl_table_run_NOV2014.pdf, accessed 3/12/15
 IARC Monograph #100, Formaldehyde... (2012); <http://monographs.iarc.fr/ENG/Monographs/vol100F/mono100F-29.pdf>, accessed 3/12/15

Notes:

These results relate only to the samples tested.
 RL= Reporting Limit as defined by lowest Calibration Standard.

Experimental:

The sample(s) (7.9g) were prepped and placed into a tare-weighted vial, allowed to equilibrate for 30 minutes, then (12) liters of air passed through the vial over (30) minutes onto a sorbent tube (DNPH on silica gel) to collect formaldehyde.
 A vial blank sample, and media blank sample were also collected. The sorbent tube was subsequently desorbed using Acetonitrile, and analyzed by High-Performance Liquid Chromatography (HPLC) via NIOSH Method 2016 Modified
 * Majority of Parkay Laminate Floors are Carb 2 compliant. Ask your representative for available Carb 2 certified collections.

**Parkay tested as one of the safest laminate floors in the industry.
 No harmful levels of formaldehyde found in testing (<0.0034ppm)
 Testing performed in a U.S. certified laboratory.**



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Signature Page

Report Date

08/21/2015

Report Revision

R0

Revision Comments

Initial Report

Scott Van Etten, CIH, Laboratory Manager
or other approved signatory

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◆ EMSL Laboratory
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