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# FOOD CONTACT SAFETY, EMISSION, CHEMICAL & HYGIENIC COMPLIANCE

**Objective:** Food Contact Safety and Emission testing of High Pressure Decorative Laminates (HPL) evaluates chemical migration, volatile organic compound (VOC) emissions, formaldehyde release, hygienic performance, sensory neutrality, extractive substances, and restricted chemical content to ensure compliance with European, US FDA, and international safety regulations for food contact and indoor applications.

**Validation:** Testing is conducted in ISO/IEC 17025 accredited laboratories under ILAC recognition, in accordance with Commission Regulation (EU) No. 10/2011, Regulation (EC) No. 1935/2004, REACH Regulation (EC) No. 1907/2006, NSF / ANSI 35:2024, EN 1186, EN 13130, EN 16516, DIN 10955:2024-1, US FDA 21 CFR 175.300 & 177.1460, CDPH Standard Method v1.2, and international hygienic performance standards.

**Results:** Certified results confirm that HPL complies with applicable migration limits, emission requirements, and chemical safety regulations, making them suitable for use in food preparation areas, kitchens, healthcare, and other sensitive interior environments.

## 1. VOC & EMISSION COMPLIANCE

### 1.1 VOC Emission Test

intertek
Total Quality. Assured.

Description: Evaluates Volatile Organic Compound (VOC) emissions from HPL to ensure suitability for indoor environments and compliance with indoor air quality requirements.

Standard: CDPH Standard Method v1.2

Test Results: All Listed Target VOCs reported: < 2 µg/m³. CDPH Compliant – PASS

Link to Download Result: https://www.virlaminate.com/assets/pdf/certifications/food-contact-safety-and-emission-compliance/cdph-voc-cgs.pdf

### 1.2 Formaldehyde Emission Test

intertek
Total Quality. Assured.

Description: Chamber based emission testing to measure the release of formaldehyde from laminate under controlled environmental conditions simulating indoor use.

Standard: EN 16516 + ISO 16000-3

Test Results: Formaldehyde Emission: 0.010 mg/m³. Qualifies under E0 emission level.

Link to Download Result: https://www.virlaminate.com/assets/pdf/certifications/food-contact-safety-and-emission-compliance/en-16516-formaldehyde-emission-test.pdf



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## 2. FOOD CONTACT SAFETY

Food contact suitability is evaluated as per NSF / ANSI 35:2024, with migration testing in accordance with EU Food Contact Regulation (EU) No. 10/2011, US FDA 21 CPR and sensory analysis (Odour and taste transfer) as per DIN 10955:2024-1, ensuring compliance with overall food contact safety requirements.

### 2.1 NSF

Description: Evaluation of High Pressure Laminates (HPL) for use in food service work surfaces, assessing performance characteristics such as stain resistance, high temperature resistance, wear resistance, and impact resistance under defined laboratory conditions.

Standard: NSF / ANSI 35:2024

Test Results: Meets NSF / ANSI 35 Requirements

Link to Download Result: https://www.virlaminate.com/assets/pdf/certifications/food-contact-safety-and-emission-compliance/nsf-certificate.pdf

### 2.2 Overall Migration Limit (OML)

Description: Gravimetric determination of the total quantity of non-volatile substances that migrate from laminate into food simulants under specified test conditions.

Standard: EN 1186

Test Results: Overall migration within permitted limit of 10 mg/dm² — complies.

Link to Download Result: https://www.virlaminate.com/assets/pdf/certifications/food-contact-safety-and-emission-compliance/overall-migration-en-1186.pdf

### 2.3 Specific Migration of Bisphenol A (BPA)

Description: Quantitative chemical determination of Bisphenol A (BPA) migrating from HPL into food simulants under controlled time and temperature conditions.

Standard: EN 13130-1: 2004

Test Results: Not Detected

Link to Download Result: https://www.virlaminate.com/assets/pdf/certifications/food-contact-safety-and-emission-compliance/sml-bisphenol-a-en-13130.pdf



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## 2.4 Specific Migration of Formaldehyde

Description: Determination of formaldehyde migration from laminate surface into food simulant using validated analytical methods.

Standard: EN 13130-1: 2004

Test Results: 3 mg/kg reported against 15 mg/kg permissible limit – PASS.

Link to Download Result: https://www.virlaminate.com/assets/pdf/certifications/food-contact-safety-and-emission-compliance/sml-formaldehyde-en-13130.pdf

## 2.5 Specific Migration of Phthalates

Description: Analytical determination of regulated phthalates migrating from HPL into food simulants under controlled time and temperature conditions.

Standard: EN 13130-1: 2004

Test Results: PASS (Complies with EU 10/2011 Specific Migration Limits).

Link to Download Result: https://www.virlaminate.com/assets/pdf/certifications/food-contact-safety-and-emission-compliance/sml-phthalates-en-13130.pdf

## 2.6 Specific Migration of Melamine

Description: Testing conducted to determine the migration of melamine from the laminate surface into food simulants under specified test conditions.

Standard: EN 13130-1: 2004

Test result: 0.5 mg/kg reported against 2.5 mg/kg permissible limit – PASS

Link to download result: https://www.virlaminate.com/assets/pdf/certifications/food-contact-safety-and-emission-compliance/sml-melamine-en-13130.pdf

## 2.7 Specific Migration of Phenol

Description: Testing conducted to determine the migration of phenol from the laminate surface into food simulants under specified test conditions.

Standard: EN 13130-1: 2004 (with reference to Commission Regulation (EU) No. 10/2011)

Test result: Not Detected against permissible limit <3 mg/kg – PASS

Link to download result: https://www.virlaminate.com/assets/pdf/certifications/food-contact-safety-and-emission-compliance/sml-phenol-en-13130.pdf



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## 2.8 Specific Migration of Primary Aromatic Amine

Description: Testing conducted to determine the migration of Primary Aromatic Amines (PAA's) from the laminate surface into food simulants under test conditions.

Standard: EN 13130-1:2004 (with reference to Commission Regulation (EU) No. 10/2011)

Test result: Not Detected in all migration cycles (1st, 2nd, and 3rd migration) against the permissible limit of 0.01 mg/kg — PASS.

Link to Download: https://www.virlaminate.com/assets/pdf/certifications/food-contact-safety-and-emission-compliance/sml-paa-s-en-13130.pdf

## 2.9 Sensory Analysis – Odor & Taste Transfer

Description: Sensory evaluation conducted to assess potential transfer of odor and taste from the laminate material to food simulants.

Standard: DIN 10955: 2024-1

Test result: No abnormal odor or taste transfer detected -PASS.

Link to download result: https://www.virlaminate.com/assets/pdf/certifications/food-contact-safety-and-emission-compliance/sensory-examination-odour-and-taste-din-10955.pdf

## 2.10 Determination of Amount of Extractives - Polymeric or Resinous Coatings

Description: Determination of the amount of extractive substances migrating from the decorative laminate surface under repeated-use food contact conditions to assess suitability for food contact applications

Standard: US FDA 21 CFR 175.300 – Resinous and Polymeric Coatings

Test result: Not detected for all extractants

Link to download result: https://www.virlaminate.com/assets/pdf/certifications/food-contact-safety-and-emission-compliance/determination-of-amount-of-extractive-us-fda-21-cfr-175.300.pdf

## 2.11 Chloroform Soluble Extractive for Melamine Formaldehyde Surface

Description: Evaluation of melamine formaldehyde resin surface intended for repeated food contact applications to assess compliance with extractive and compositional requirements for molded articles used in food contact conditions.

Standard: US FDA 21 CFR 177.1460 – Melamine Formaldehyde Resins in Molded Articles

Test Result: Not detected for all extractants

Link to Download Result: https://www.virlaminate.com/assets/pdf/certifications/food-contact-safety-and-emission-compliance/chloroform-soluble-extractive-for-melamine-surface-us-fda-21-cfr-177.1460.pdf



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## 3. ANTIMICROBIAL & HYGIENE PERFORMANCE

### 3.1 Antifungal Test

Description: Evaluates resistance of HPL surface against fungal growth under controlled laboratory conditions.

Standard: ASTM G21

Test Results: No fungal growth observed – Complies.

Link to Download Result: https://www.virlaminate.com/assets/pdf/certifications/food-contact-safety-and-emission-compliance/astm-g-21-antifungal-test.pdf

### 3.2 Antiviral Activity Test

Description: To assess antiviral performance by measuring reduction of viral activity on laminate surface after defined contact period.

Standard: ISO 21702:2019

Test Results: Demonstrates antiviral activity as per standard requirements - Complies.

Link to Download Result: https://www.virlaminate.com/assets/pdf/certifications/food-contact-safety-and-emission-compliance/iso-21702-2019-antiviral-cer-bts-2500663-01.pdf

### 3.3 Antibacterial Test

Description: Determines antibacterial effectiveness against specified bacterial strains.

Standard: JIS Z 2801:2010

Test Results: Antibacterial activity confirmed - Complies.

Link to Download Result: https://www.virlaminate.com/assets/pdf/certifications/food-contact-safety-and-emission-compliance/jis-z-2801-2010-antibacterial-test.pdf

## 4. CHEMICAL SAFETY & RESTRICTED SUBSTANCES

### 4.1 REACH 253 Candidate List

Description: Chemical screening conducted to evaluate the presence of Substances of Very High Concern (SVHC) in HPL ensuring compliance with REACH chemical safety requirements for restricted substances.

Standard: Regulation (EC) No. 1907/2006 concerning REACH – Candidate List of SVHC for Authorization (253 substances published by ECHA up to 04 February 2026).

Test Result: All tested SVHC substances found to be ≤ 0.1% (w/w) — PASS

Link to Download Result: https://www.virlaminate.com/assets/pdf/certifications/food-contact-safety-and-emission-compliance/reach-253-svhc-candidate-list-test.pdf



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### 4.2 PCP (Pentachlorophenol) Content

Description: Determination of Pentachlorophenol (PCP) content in HPL.

Standard: Article 3 of European Regulation No. 1935/2004

Test Result: Not Detected

Link to Download Result: https://www.virlaminate.com/assets/pdf/certifications/food-contact-safety-and-emission-compliance/pcp-content.pdf

### 4.3 Arsenic Content

Description: Evaluation of arsenic presence and concentration of arsenic in HPL.

Standard: LFGB (Germany), Section 30 & 31

Test Results: Not Detected

Link to Download Result: https://www.virlaminate.com/assets/pdf/certifications/food-contact-safety-and-emission-compliance/arsenic-content.pdf

### 4.4 Pesticide Content

Description: Chemical analysis to detect and quantify restricted pesticide residues in laminate material.

Standard: With reference to US EPA Method 8081B, 3620B, 3630C.

Test Results: Not Detected

Link to Download Result: https://www.virlaminate.com/assets/pdf/certifications/food-contact-safety-and-emission-compliance/pesticide-content.pdf



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