

# FORMICA® LAMINATE BY FORMICA GROUP



## CABINET LINER TECHNICAL DATA

### RECOMMENDED APPLICATION

Formica® Brand Cabinet Liner sheets are designed for use in a three (3) ply fabrication on the backside of substrates faced with Formica® Brand Laminate. Types of fabricated pieces using these products include contract and residential furniture, wall panels, countertops, and cabinetry.

Formica® Cabinet Liner sheets are designed to provide attractive lining and facing surfacing for cabinetry interiors such as shelves, drawers and cabinet doors and walls. They are solely intended for application to the unexposed backs of pieces faced with High Pressure Laminate and not for use as a structural material or to be mechanically fastened. They provide the fabricated piece with balance and protection from the effects of humidity in their normal use.

### PRODUCT DESCRIPTION

Melamine-impregnated decorative surface papers are combined with phenolic-treated kraft paper and consolidated in a press at high pressures. The sheet back is sanded to maintain a uniform thickness and facilitate bonding.

### FABRICATION AND ASSEMBLY

#### LIMITATIONS

Formica® Brand laminate is designed for interior use only. Do not adhere directly to plaster, drywall (gypsum board), or concrete. Do not use in areas exposed to temperatures exceeding 275°F (135°C) or for exterior applications. Finished panel width should not exceed 24" (61.0cm) maximum for Cabinet Liner if using a contact adhesive gluing system.

#### STORAGE

Laminate should be stored horizontally, with a caul board or other protective sheet placed on top to protect the material from possible damage. The material should be protected from moisture, and should never be stored in contact with the floor or an outside wall. Optimum conditions for storage are approximately 75°F (24°C), and 45% to 55% relative humidity.

#### PRECONDITIONING

Prior to fabrication, allow both the laminate and substrate to acclimate for at least 48 hours at the same ambient conditions. Optimum conditions are approximately 75°F (24°C), and relative humidity of 45% to 55%. Provisions should be made for the circulation of air around the materials.

#### SUBSTRATES

Formica® brand laminate should be bonded to an appropriate substrate such as 45# density particleboard (CS 236-66: Type 1, Grade B, Class 2), or Medium Density Fiberboard (MDF). The substrate should be sanded smooth, clean, free of oil or grease, and uniform in thickness.

### ADHESIVES

Contact, semi-rigid (PVAc), or rigid (urea, resorcinol) adhesives may be used. Follow the adhesive manufacturer's recommendations. Certain combinations of finish, substrate, and adhesive can cause telegraphing.

For panels wider than 24" (61.0cm), we recommend using semi-rigid or rigid adhesives to reduce the potential for stress cracking and delamination.

### ASSEMBLY

Material, equipment, and workmanship should conform to the industry standard practices, conditions, procedures, and recommendations as specified by ANSI/NEMA LD3-2005, Section 4, Architectural Woodwork Quality Standards and ANSI 161.2-1979 standards.

Laminate can be sawed, drilled, routed, and fabricated using standard carbide-tipped cutting tools.

Panel assemblies should be laminated with the appropriate backing sheet to minimize warpage. Optimum balancing is obtained by bonding the same surface laminate on both sides of the assembly with the same adhesive. For less critical applications the selection of an appropriate backer, such as Formica® Brand Grade 91/BKL, depends on the specific application. Always align sanding marks in the same direction. Installed panel width should not exceed 24" (61.0cm) maximum for Cabinets Liners if using a contact adhesive glue system.

All inside corners of cutouts must be radiused as large as possible, 1/8" (3.18mm) minimum, to avoid stress cracking. The edges and corners should be routed, sanded, or filed smooth and free of chips or nicks.

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Performance compliance of Formica® brand postforming grade laminates:

NEMA TEST	LD-3 TEST METHOD	NEMA STANDARDS CLS	FORMICA
Thickness Tolerance – in – mm	3.1	0.020"±0.004 0.50mm±0.10mm	0.020"±0.002 0.50mm±0.05mm
Appearance	3.2	No ABC Defect	No ABC Defect
Light Resistance (min.)	3.3	Moderate	Slight Effect
Cleanability (max.) Reagents 1 to 10 Reagents 11 to 15	3.4	20 Moderate Moderate	7 No Effect No Effect
Boiling Water Resistance	3.5	Moderate	No Effect
High Temperature Resistance	3.6	Moderate	No Effect
Ball Impact Resistance (max.) – in – mm	3.8	(10) 250	(20) >500
Dimensional Change Machine Direction – % max. Cross Direction – % max.	3.11	1.2 2.0	0.90 1.5
Room Temperature Dimensional Stability Machine Direction – % max. Cross Direction – % max.	3.12	1.2 2.0	1.05 1.5
Wear Resistance – cycle (min.)	3.13	50	>1000
Formability (radius) mm (in) min.	3.14	Not Applicable	-----
Blister Resistance sec. min.	3.15	Not Applicable	-----

### GRADES, FINISHES AND SIZES

**GRADE C9:** Non decorative surface; light duty interior use cabinet liner for balancing and moisture control of laminate panels.

**THICKNESS:** 0.020" ± 0.005" (0.5mm ± 0.10mm)

**FINISHES:** Matte Finish -58

**SIZE:** 48" (121.9cm) x 96" (243.8cm)

### COLORS

Cabinet Liners are available in the following 5 colors:

9167-58 Basic White 1

9168-58 Basic White 2

909-58 Black

85983-58 Almond

85984-58 Gray

### HOW TO SPECIFY

Surface (and appropriate backing sheet) shall be Formica® brand laminate from Formica Corporation, Cincinnati, Ohio.

COLOR NUMBER \_\_\_\_\_

COLOR NAME \_\_\_\_\_

GRADE \_\_\_\_\_

FINISH \_\_\_\_\_

SIZE \_\_\_\_\_

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### USE AND CARE

Formica® brand laminate may be cleaned with a damp cloth and mild detergent.

If in doubt about the suitability of a particular cleaner or detergent, check with its manufacturer. Use of abrasive cleaners, powders, scouring pads, steel wool, sandpaper, etc., can damage the finish of the decorative surface.

Acid or alkaline-based cleaners, compounds, etc., will mar, etch, corrode, and permanently discolor the decorative surface of laminate. Never use these materials on laminate, nor allow bottles, rags, etc., contaminated with them to contact the surface. Accidental spills or splatters from these harsh materials should be wiped off immediately, and the area cleaned thoroughly with a damp cloth.

Examples of these materials are: drain cleaners, rust removers, coffeepot cleaners, metal cleaners, ceramic cooktop cleaners, tub and tile cleaners, chlorine bleach, oven cleaners, some countertop cleaners, and toilet bowl cleaners.

### LIMITED WARRANTY

Formica Corporation expressly warrants that, for a period of one (1) year from the date of first sale, these products will be reasonably free of defects in materials and workmanship, and that when properly handled and fabricated, will conform, within accepted tolerances, to applicable manufacturing specifications. This limited warranty only applies to Formica brand laminate which is stored, handled, fabricated and installed in the manner recommended by Formica Corporation. Due to the variety of uses and applications to which Formica brand laminate may be put, FORMICA CORPORATION CAN MAKE NO WARRANTY THAT THIS PRODUCT IS SUITABLE FOR ANY PARTICULAR PURPOSE AND CAN MAKE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, OTHER THAN THOSE SET FORTH ABOVE.

Buyer's exclusive remedy for any loss or claim resulting from the use or inability to use this product shall be replacement of the defective laminate, or at the option of Formica Corporation, return of the product and refund of the purchase price. IN NO EVENT SHALL FORMICA CORPORATION BE LIABLE IN EITHER TORT OR CONTRACT FOR ANY LOSS OR DIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES.

This limited warranty gives the purchaser of Formica brand laminate specific legal rights. Other rights may be available which vary from state to state.

Any information or suggestion concerning applications, specifications or compliances with codes and standards is provided solely for your convenient reference and without any representation as to accuracy or suitability. Formica Corporation disclaims any legal responsibility. The user must verify and test the suitability of any information or products for the specific application.

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### MANUFACTURER

Formica® Brand Laminate sheets are manufactured by Formica Corporation.

### TECHNICAL SERVICES

Technical assistance may be obtained through your local Formica® Brand Products Distributor or from Formica Corporation trained representatives in sales offices throughout the country. To assist these representatives, Formica Corporation maintains a sales and technical services staff in Cincinnati, Ohio. For technical assistance, contact your distributor or sales representative; write the company directly at Formica Corporation Technical Services Department, 10155 Reading Road, Cincinnati, OH, 45241; call (513) 786-3578 or 1-800-FORMICA™; or fax (513) 786-3195. In Canada, call 1-800-363-1405. In Mexico, call (525) 530-3135.

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