

Pionite® Cabinet Liner provides a durable and attractive surface to the inside of cabinets and drawers. Cabinet Liner also imparts dimensional stability to substrate that is faced with high pressure decorative laminate.

Product Composition

Cabinet Liner laminate is manufactured in a press by combining decorative papers saturated in melamine resin with phenolic-impregnated kraft layers at pressures exceeding the NEMA specification of 1,000 psi (6.9 MPa) and temperatures approaching 300 °F (150 °C). The panels are trimmed to size and the backs are sanded to facilitate bonding. The thickness of the laminate is determined by the number of kraft layers used. The laminating process combines the durability of melamine resins with the aesthetics of decorative papers creating a surfacing material that has been the standard for many years.

Product Description

Type	Standard Nominal Sizes				Colors
	Thickness	Width	Length		
C20	(in)	0.020	36, 48, 60	96, 120, 144	All Solids, Patterns and Woodgrains
	(mm)	0.5	914, 1219, 1524	2438, 3048, 3658	
C21	(in)	0.020	36, 48, 60	96, 120, 144	Solid Black
	(mm)	0.5	914, 1219, 1524	2438, 3048, 3658	

Finish

Types C20 and C21 are available in a Matte (M) finish only. Matte finish is a low luster, textured finish with a 60 degree gloss meter reading of 2 ± 1 gloss units.

Fabricating Tips

When working with Cabinet Liner, these techniques will produce a quality application.

1. Proper conditioning of the laminate, substrate, and backing sheet minimizes possible warping, shrinking, or expansion of assembled panels. Ideally all components should be conditioned at 70 °F to 75 °F (21 °C to 25 °C) and 45 to 50 percent relative humidity for 48 hours prior to assembly. Always bond laminate to a suitable substrate such as medium to high density fiberboard, particleboard or metals. It should not be glued directly to plaster walls, gypsum wallboard or concrete.
2. Recommended adhesives include solvent or water-based contact cement, white glue (PVA), epoxy and hot melt glue. Consult your adhesive supplier for specific application requirements.
3. All saw blades and router bits used for cutting should be carbide tipped. Feed rate should be slow and tool speed should be high.
4. Inside corners of cutouts for electrical outlets, sinks, etc., should have a minimum radius of 1/8" (3 mm) and be filed smooth. This reduces the likelihood of stress cracks.
5. All edges of laminate should be filed smooth with file direction towards substrate to help prevent stress cracks and to minimize chipping.
6. When fasteners are required, it is advisable to first drill an oversized hole through the laminate. This reduces the likelihood of stress cracks.
7. All laminate is intended for interior use only, and should not be exposed to extreme humidity, continuous sunlight or temperatures above 275 °F (135 °C) for extended periods of time.

Technical Information

Physical Properties

TEST		NEMA LD 3-2005 Test Method	NEMA STD. CLS	TYPICAL PIONITE VALUES Type C
Thickness	(in.) (mm)		0.020 ± 0.004 0.5 ± 0.1	0.020 ± 0.003 0.50 ± 0.08
Light Resistance		3.3	Moderate effect	Moderate effect
Cleanability		3.4	20 (max)	10
Stain 1-10			Moderate effect	Moderate effect
Stain 11-15			Moderate effect	Moderate effect
Boiling Water Resistance		3.5	Moderate effect	No effect
High Temperature Resistance		3.6	Moderate effect	No effect
Ball Impact Resistance	(in.) (mm)	3.8	10 (min.) 254 (mm)	15 381
Dimensional Change		3.11		
Machine Direction	(%)		1.20 (max)	0.4
Cross Direction	(%)		2.00 (max)	0.6
Wear Resistance	(cycles)	3.13	50 (min.)	700

Codes and Certifications

American National Standards Institute/National Electrical Manufacturers Association (ANSI/NEMA), LD3-2005, "High-Pressure Decorative Laminate." Pionite Type C20 and C21 comply.

Care and Maintenance

Pionite decorative laminate provides a durable surface that is easy to maintain using ordinary care.

To maintain the laminate's lasting beauty, cleaning with a solution of warm water and liquid dishwashing detergent is all that should be required in most cases.

Stains may be removed with most non-abrasive household cleaners such as FORMULA 409®, GLASS PLUS®, or WINDEX® WITH AMMONIA D®. Light scrubbing with a soft bristled brush may be necessary to remove stains from the depth of the structure on some textured surfaces.

If the stain persists, use a paste of baking soda and water and apply with a soft bristled brush. Light scrubbing for 10-20 strokes should remove most stains. Although baking soda is a low abrasive, excessive scrubbing or exerting too much force may damage the decorative surface, especially if it has a gloss finish.

Stubborn stains that resist any of the above cleaning methods may require the use of undiluted household bleach. Apply the bleach to the stain and let stand no

longer than 1 1/2 minutes. Rinse thoroughly with warm water and wipe dry. This step may be repeated if the stain appears to be going away and the color of the laminate has not been affected. **WARNING:** Prolonged exposure of the laminate surface to bleach will cause discoloration.

Many commercially available products contain substances that may damage or discolor a laminate surface. **ABRASIVE CLEANERS SHOULD NOT BE USED.** Particular care should be used with any products labeled CAUTION or WARNING. Any questions or concerns should be referred to the product's manufacturer or call 1-877-726-6526. Do not allow harsh materials to remain in contact with the laminate surface. Examples of these are as follows:

- Toilet bowl cleaners
- Chlorine bleach
- Hydrogen Peroxide
- Coffee pot cleaners
- Oven cleaners
- Hard water stain removers
- Drain cleaners
- Fruit and berry juice
- Metal cleaners and polishes
- Tub and tile cleaners

Limited Warranty

Subject to the limitations set forth below, Panolam® Industries International Inc. (Panolam) expressly warrants that our products are reasonably free of defects in material and workmanship, and when properly handled and fabricated will conform, within accepted tolerances, to applicable manufacturing specifications as set forth in our technical brochure. This warranty shall extend to the original buyer for a period of twelve (12) months from the date of shipment of this product by Panolam, and shall not be assignable by the original buyer. This warranty does not cover damage resulting from accident, misuse, alteration, abuse or lack of reasonable care.

Due to the variety of uses and applications to which this product may be put, and because the manufacturer has no control over the end products fabricated, the warranty set forth above is exclusive and in lieu of all warranties, expressed or implied, in fact or by operation of law or otherwise, or arising by course of dealing or performance, custom or usage in the trade, including, without limitation, the implied warranties of fitness for a particular purpose and merchantability, and Panolam shall have no obligation or liability to any person or entity in connection with or arising from the furnishing, sale, installation or repair, use or subsequent sale of any product supplied by it.

Our maximum liability arising out of the sale of the products or their use, whether based upon warranty, contract, tort or otherwise, shall not exceed the actual payments received by us in connection therewith. In no event shall we be liable for special, incidental or consequential damages, including, but not limited to, arising hereunder or from the loss of profits, or loss of use damages, sales of the products.

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