Marker Board HIGH PRESSURE LAMINATES

nevamar

Nevamar® Marker Board laminate provides a nonabsorbent, dry erase compatible surface suitable for a variety of applications for boardrooms, schools, clinics and hospitals. Type MB1 (.048") and MB2 (.028") are vertical grade laminates intended for non-postforming, low abrasion applications. Marker Board laminate should not be used in horizontal applications.

Product Composition

Nevamar® Marker Board laminate is manufactured in a flat press by combining decorative papers saturated in melamine resin with phenolic-impregnated kraft layers at pressures exceeding NEMA specifications 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 Marker Board surface layer has been designed to be non-absorbent and dry erase compatible.

Product Description

Standard Nominal Sizes*

Type		Thickness	Width	Length
NMB1	(in.)	0.048	36,48,60	96,120,144
	(mm.)	1.2	914,1219,1324	3438,3648,3658
NMB2	(in.)	0.028	36,48,60	96,120,144
	(mm.)	0.7	914,1219,1324	3438,3648,3658

*Additional designs including digital are available upon request. Please consult your Nevamar® representative for details.

Other widths and thicknesses of Marker Board laminate are available upon request.

Please refer to online stock availability for colors.

Finish

Marker Board laminate is stocked in a Gloss (G) finish. This is a high gloss finish with a 60 degree gloss meter reading of 100 ± 10 gloss units.

Fabrication and Assembly Tips

When working with Marker Board laminate, 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.
2. The substrate must be smooth and free of irregularities and loose particles.
3. 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.
4. Recommended adhesives include solvent or water-based contact cement, white glue (PVA), and epoxy. Consult your adhesive supplier for specific application requirements.
5. The use of a backing sheet is recommended to minimize warpage. The thickness of the backing sheet should be equal to the thickness of the decorative laminate on the face of the assembly.
6. All saw blades and router bits used for cutting should be carbide tipped. Feed rate should be slow and tool speed should be high.
7. All edges of laminate should be filed smooth with file direction towards substrate to help prevent stress cracks and to minimize chipping.
8. When fasteners are required, it is advisable to first drill an oversized hole through the laminate. This reduces the likelihood of stress cracks.
9. 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	TYPICAL NEVAMAR® VALUES NMB1	NEMA STD. HGS	TYPICAL NEVAMAR® VALUES NMB2	NEMA STD. VGS
Thickness	(in.) (mm)		0.048 ± 0.005 1.2 ± 0.12	0.048 ± 0.005 1.2 ± 0.12	0.028 ± 0.004 0.7 ± 0.10	0.028 ± 0.004 0.7 ± 0.10
Appearance		3.1	Complies		Complies	
Light Resistance		3.3	Slight Effect	Slight Effect	Slight Effect	Slight Effect
Cleanability Stain 1 - 10 Stain 11 - 15		3.4	13 No Effect No Effect	20 (max) No Effect Moderate Effect	13 No Effect No Effect	20 (max.) No Effect Moderate Effect
Boiling Water Resistance		3.5	No Effect	No Effect	No Effect	No Effect
High Temperature Resistance		3.6	Slight Effect	Slight Effect	Slight Effect	Slight Effect
Ball Impact Resistance	(in.) (mm)	3.8	55 1397	50 (min.) 1250 (min.)	30 762	20 (min.) 500 (min.)
Radiant Heat Resistance	(sec.)	3.10	150	125 (min.)	75	80 (min.)
Dimensional Change		3.11				
Machine Direction	%		0.25	0.50 (max.)	0.40	0.70 (max.)
Cross Direction	%		0.70	0.90 (max.)	0.80	1.20 (max.)
Room Temperature		3.12				
Dimensional Stability						
Machine Direction	%		0.15	0.50 (max.)	0.18	0.6 (max.)
Cross Direction	%		0.40	0.8 (max.)	0.37	1.1 (max.)
Wear Resistance	(cycles)	3.13	700	400 (min.)	700	400 (min.)

Care and Maintenance

Marker Board laminate can be cleaned using a felt or multi-purpose board eraser. When additional cleaning is needed the laminate can be cleaned using over the counter Marker Board cleaning solutions or a solution of alcohol and water. Marker Board has a high gloss finish so abrasive cleaners that may scratch the surface are not recommended.

After extended use, solvents from dry erase markers may form a film on the Marker Board surface creating a ghosting effect. A similar effect may occur if the marker is erased before it is completely dry. Additional causes of ghosting may be adhesive residue left behind by protective peel coat, tapes, and post papers. Ghosting caused by the mentioned conditions can be removed with proper cleaning procedures.

Marks left by inadvertent use of a permanent marker can often be removed by tracing over the mark with a dry erase marker then immediately wiping off both inks. Permanent marker can also be removed using nail polish remover.

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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