

Specification Information

Lab Designs Laminate

Phenolic Backed Decorative Laminate

July 2011

1. Product Identification

Lab Designs Laminate – Phenolic Backed Decorative Laminate.

2. Manufacturing and Marketing:

Lab Designs Laminate
391 Hickory Street
Mount Airy, N.C. 27030
336-429-4114

Lab Designs Laminate markets its products throughout all corners of the globe. Lab Designs Laminates are manufactured at our state of the art, international manufacturing facilities exclusively for Lab Designs Laminate.

3. General Description: Lab Designs Laminates are composed of a layer of Melamine impregnated decorative paper bonded to layers of phenolic impregnated Kraft paper. The backside of the laminate is sanded to ensure uniform bonding and consistent thickness.

- Sheet Sizes: 4' x 8' (stocked) , 4' x 10' (special order).
- Availability: All Lab Designs Laminates on our sample chain are stocked in North Carolina and Las Vegas.
- Stock Thickness Available: .9mm (.0354") thick (post forming grade). Other thicknesses available upon special request.
- Basic Uses: Lab Designs Laminates are recommended for interior vertical and horizontal decorative applications. Possible uses are hotels, restaurants, cabinet doors, store fixtures, exhibit manufacturing, office furniture, kitchen counter tops, columns, and slat wall.
- Not recommended for: Areas exposed to high temperatures, or exterior use.

4. Installation: Lab Designs Laminate can be bonded to the following substrate material. Plywood, MDF board, HDF board, Particle board. Material should be installed in conformance with basic techniques outlined by NEMA LD – 3 for high pressure laminate: or as recommended by your adhesive manufacturer.

5. Post Forming Grade: Lab Designs Laminates are available in 0.9 mm (.354") post forming grade for vertical & furniture applications.

6. Balancing: We recommend that all Lab Designs laminates adhered to a substrate should be balanced to an equally thick Lab Designs Phenolic backer to help ensure a proper balance to keep finished boards flat.

7. Care and Maintenance: Lab Designs Laminates should be cleaned with a particle free, clean, non-abrasive, damp cloth. Mild soap and water or mild liquid detergent can be used. DO NOT USE: Solvents, abrasive cleaners, steel wool, powder soap, harsh chemicals, acids or alkaline cleaners. These products may cause scratching and /or discoloration.

8. Material Warranty: Lab Designs Laminate warrants that it's products are reasonably free of defects, when properly used in accordance to the standards set forth by NEMA LD-3. This warranty is valid for a period of one year from purchase date and is limited to the value of the material purchased. This warranty is extended to the original buyer , and shall not be transferable to any person or entity. Lab Designs Laminate does not assume liabilities arising from the sale, installation, furnishing or repair of finished goods. This warranty excludes damages resulting from accidents, abuse, lack of care, or improper use.

Property or attribute	Standard test method	Unit	Typical Values*
Ball Impact Resistance	Nema LD3 - 2005	mm	>550
Dimensional Change	Nema LD3 - 2005	% MD (max) % CD (max)	<1,10 <1,40
Formability	Nema LD3 - 2005	mm (In) Radius	9,6 (3/8)
Blistering	Nema LD3 - 2005	Secs.	>40
Scratch Resistance	Nema LD3 - 2005	N	2,5
Wear Resistance	Nema LD3 - 2005	Cycles	* 400
Appearance	Nema LD3 - 2005	Rating	No ABC Defects
Boiling Water Resistance	Nema LD3 - 2005	Rating	No Effect
High Temperature Resistance	Nema LD3 - 2005	Rating	Slight Effect
Stain Resistance Reagents 1-10 Reagents 11-15	Nema LD3 - 2005	Rating	No Effect Slight Effect

* For horizontal grade laminates - regardless of finish or texture, resulted in over 400 cycles on a Taber Abrader. For pearlescent products, (recommended for vertical applications only) regardless of finish 100 cycles were achieved.

Color Fastness under Artificial Light: Lab Designs patterns meet industry standards of 100 hours of exposure under Zion (artificial sunlight). Our pearlescent patterns will show variances in surface color and reflectance dependant on light source and angles viewed.

Lab Designs

MSDS

7/1/2011

Material Safety Data Sheet

- A. Product Identification
- | | |
|------------------|---|
| Trade Name: | High Pressure Laminate - HPL |
| Chemical Name: | |
| Formula: | Mixture |
| Chemical Family: | Paper Impregnated with Thermosetting Resins |
- B. Hazard Information
- | | |
|------------------------|---|
| Hazardous Ingredients: | None |
| ACGIH TLV: | N/A |
| CAS Number: | N/A |
| Note: | Laminate dust is generated while performing certain operations like sawing, routing, sanding, ect.... |
| NFPA hazard rating: | Health – N/E
Stability- N/E
Flammability- 2 |
- C. Fire Hazard Data:
- | | |
|---------------------|---|
| Flashpoint: | N/A |
| Auto Ignition Temp: | > 400 |
| Flammable Limits: | N/A |
| Extinguishing Data: | Use water spray to cool surfaces exposed to fire. |
- Dust is performed while machining. Safety precaution and proper ventilation for class 1 dust should be followed according to NFPA-68
- D. Reactivity Data
- | | |
|---------------------------|----------------|
| Stability: | Stable |
| Conditions to Avoid: | None |
| Hazardous Polymerization: | Will not occur |
| Conditions to Avoid | None |
- E. Hazardous Decomposition
- | | |
|-------------------------------------|--|
| Pyrolysis Emissions Similar to Wood | |
|-------------------------------------|--|

Materials:

F. Precautions For
Safe Handling
And use

Eyes: Use safety glasses
when cutting glass.
Respiratory: Not required normally.
Use approved dust.
Respirator if dust is a
problem while sawing .

Gloves: Cloth gloves recommended
while handling to prevent
cuts.

Other: Follow usual safety working
practices.

Ventilation: Provide sufficient ventilation
and dust collection when
cutting material .
Total dust should be kept
Below 10 mg./ms PEL

Handling and Storage: Similar to wood and paper
products.

G. Overexposure:

Inhalation: N/A

Ingestion: N/A

Skin Contact: N/A

Eye Contact: If exposure to dust occurs
flush eyes for at least 15
minutes. Contact physician if
irritation persists.

H. Physical Data:

Appearance: Solid sheets.

Odor: No odor

Specific Gravity: 1.35

Boiling Point: N/A

Vapor Pressure: N/A

PH N/A

Solubility in Water: None in normal use.

Melting Point: N/A

N/A = None Applicable

N/E = Not Evaluated

THE INFORMATION AND STATEMENTS HEREIN, ARE BELIEVED TO BE RELIABLE BUT ARE NOT TO BE CONSTRUED AS A WARRANTY, EXPRESSED OR IMPLIED, OR REPRESENTATION FOR WHICH WE ASSUME LEGAL RESPONSIBILITY. USERS SHOULD UNDERTAKE SUFFICIENT VERIFICATION AND TESTING TO DETERMINE THE SUITABILITY FOR THEIR OWN PARTICULAR PURPOSE OF ANY INFORMATION OR PRODUCTS REFERRED TO HEREIN.

VENDOR ASSUMES NO RESPONSIBILITY FOR INJURY TO VENDEE OR THIRD PERSON PROXIMATELY CAUSED BY THE MATERIAL IF REASONABLE SAFETY PROCEDURES ARE NOT ADHERED TO AS STIPULATED IN THE DATA SHEET. ADDITIONALLY, VENDOR ASSUMES NO RESPONSIBILITY FOR INJURY TO VENDEE OR THIRD PERSON PROXIMATELY CAUSED BY ABNORMAL USE OF THE MATERIAL EVEN IF REASONABLE SAFETY PROCEDURES ARE FOLLOWED. FURTHERMORE, VENDEE ASSUMES THE RISK IN HIS USE OF THE MATERIAL.

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