

Product: Lab Designs Laminate

Technical Data & Specification Sheet

Phenolic Backed Decorative Laminate

Updated April 2020

1. Product Identification

Lab Designs Laminate – Phenolic Backed Decorative Laminate

2. Manufacturing and Marketing:

Lab Designs Laminate
391 Hickory Street
Mount Airy, NC 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 vary. Sheet sizes is listed on each individual laminate page and are subject to change. Please see website and call Lab Designs Corporate office for clarification on specific sizing.
- All Lab Designs laminate are oversized unless otherwise indicated on each individual laminate page on the website.
- Availability: All Lab Designs Laminates on our sample chains are stocked in North Carolina and Las Vegas.
- Sheet Thickness: sheet thickness is post forming grade, or .9mm (.0354”) thick unless otherwise indicated on website. Other thicknesses MAY be available for some of the laminates in the line upon special request. Call Lab Designs Laminates Corporate office to inquire if special thicknesses are offered for the laminate in question.
- Basic Uses: Lab Designs Laminates are recommended for interior vertical and horizontal decorative applications. All of the laminates are approved for vertical and horizontal applications unless otherwise indicated on the website. Possible uses are hotels, restaurants, cabinet doors, countertops, office furniture, store fixtures, exhibit manufacturing, columns, slat wall and more.
- Order a sample using the Lab Designs Laminates website sample request form prior to specification to confirm color and finish.
- Not recommended for: Exterior application, areas exposed to extremely high temperatures.

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 offered in .9 mm (.0354") post forming grade for vertical and furniture applications. Other thicknesses MAY be available for SOME of the laminate in the line. Please call Lab Designs Laminates Corporate Office at 336.429.4114 to inquire.
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 Laminates warrants that its products are reasonable 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 Laminates 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	Radius mm (In)	9,6 (3/8)
Blistering	Nema LD3 – 2005	Seconds	>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 or texture, 100 cycles were achieved.

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

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Material Safety Data Sheet

MSDS

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<u>Product Identification:</u>	Trade Name:	High Pressure Laminate – HPL
	Chemical Name:	
	Formula:	Mixture
	Chemical Family	Paper Impregnated with Thermosetting Resins
<u>Hazard Information:</u>	Hazardous Ingredients:	None
	ACGIH TLV:	N/A
	CAS Number:	N/A
	Note:	Laminate dust is generated while performing certain operations like sawing, routing, sanding, etc.
	NFPA Hazard Rating:	Health – N/E; Stability – N/E; Flammability – 2
<u>Fire Hazard Data:</u>	Flashpoint:	N/A
	Auto Ignition Temp:	>400
	Flammable Limits:	N/A
	Extinguishing Data:	Use water spray to cool surfaces exposed to fire. Dust is generated while machining. Safety precautions and proper ventilation for Class 1 dust should be followed according to NFPA-68.
<u>Reactivity Data:</u>	Stability:	Stable
	Conditions to Avoid:	None
	Hazardous Polymerization:	Will not occur
	Conditions to Avoid:	None
<u>Hazardous Decomposition:</u>	Pyrolysis Emissions Similar to Wood	
<u>Precautions For Safe Handling And Use:</u>	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 below 10mg./ms PEL
	Handling and Storage:	Similar to wood and paper products
<u>Overexposure:</u>	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.
<u>Physical Data:</u>	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

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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 UNDERSTAKE SUFFICIENT VERIFICATION AND TESTING TO DETERMINE THE SUITABILITY FOR THEIR OWN PARTICULAR PURPOSE OF ANY INFORMATION OR PRODUCTS REFERRED TO HERIN.

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.