

General Purpose High-Pressure Decorative Laminate

PRODUCT DESCRIPTION

Lamin-Art® brand general purpose high-pressure decorative laminate is manufactured for application as a durable decorative surfacing material in commercial interiors. It is suitable for both horizontal and vertical surfaces requiring superior wear, impact, and stain resistance. Typical horizontal applications include counter and table tops, contract furniture and casework, as well as store fixtures. Typical vertical applications can include wall panelling, interior doors, elevator cab interiors, cabinetry, casino slot bases and bar fronts.

PRODUCT COMPOSITION

Lamin-Art® general purpose high-pressure decorative laminate is manufactured by laminating phenolic resin-impregnated kraft sheets with melamine resin-impregnated decorative and overlay sheets. The lamination is performed under a minimum pressure of 1,000 psi (2,068 kPa) and at a temperature of approximately 300°F (149°C). The pressed laminate is trimmed to various sizes, and the back is sanded to provide uniform thickness and to facilitate adhesive bonding.

RECOMMENDED USES

Lamin-Art® general purpose decorative laminate is produced for both horizontal and vertical interior applications where the surface must be both functional and durable. Lamin-Art brand high-pressure decorative laminate is for interior use only and is not recommended for direct application to plaster, gypsum wallboard, or concrete. Do not use in areas exposed to temperatures in excess of 275°F (135°C).

SPECIFICATIONS

SIZES	
48" X 96"	These are the standard dimensions of regularly stocked items. Other sizes are available upon request.
48" X 120"	
FINISHES	
Textured	A non-directional matte finish with moderate reflective qualities (LRV 10.0)
Satin	A soft, pebble-like textured finish with a moderate light reflective value that minimizes smudges and finger markings (LRV 10.0)
Gloss	A smooth mirror-like finish suitable for applications where high reflectivity is desired (LRV 100.00)
Jewel	A fine-grained dimensional surface finish that imparts a high degree of light reflectivity (LRV 13.0)
Velva-Tex	A soft finish similar to hand-rubbed oiled hardwood (LRV 16.0)
Prisma	A gently-etched surface similar in appearance to soft-textured sandstone, resulting in moderate reflection and refraction of light. (LRV 13.0)
Catalyst	A gently-etched dimensional finish characterized by random spirals reminiscent of brushed metal. (LRV 18.0)
Supermatte	A textured laminate with low reflective properties (LRV 2.0)
GRADES	
STANDARD GRADE GP48 (.048"/1.2 mm)	The most commonly used grade. Recommended for horizontal and vertical applications where maximum impact-resistance and durability are required. Standard Grade GP48 material can be cold bent to a radius no smaller than 12" (304.8 mm) and formed with heat to a radius no smaller than 4" (101.6 mm). We do not recommend forming Catalyst items with heat.
VERTICAL GRADE GP28 (.028"/0.7mm)	Suitable for applications where the economies of a thinner material are desirable and impact-resistance is not critical. Offers the same surface durability as thicker grades. Vertical Grade GP28 material can be cold bent to a radius no smaller than 7" (177.8 mm) and formed with heat to a radius no smaller than 5/8" (15.88 mm). We do not recommend forming Catalyst items with heat.

■ PERFORMANCE

Lamin-Art® products have been subjected to trials by independent, nationally recognized laboratories in accordance with National Electrical Manufacturers Association (NEMA) standardized testing procedures (Pub. LD3-2005, Section 2). The following test results were obtained.

NEMA TEST	TEST RESULTS FOR LAMIN-ART GENERAL PURPOSE HPL	NEMA STANDARD FOR GENERAL PURPOSE HPL
THICKNESS STANDARD GRADE VERTICAL GRADE	0.048" (1.2 mm) 0.028" (0.7 mm)	0.048" +/- 0.005" (1.2 mm +/- 0.13 mm) 0.028" +/- 0.004" (0.7 mm +/- 0.10 mm)
APPEARANCE	No ABC Defects	No ABC Defects
LIGHT RESISTANCE	Slight Effect	Slight Effect
CLEANABILITY (cycles)	7	20 max.
STAIN RESISTANCE Reagents 1-10 Reagents 11-15	No Effect No Effect	No Effect Slight Effect
BOILING WATER RESISTANCE	No Effect	No Effect
HIGH TEMPERATURE RESISTANCE	No Effect	Slight Effect
BALL IMPACT RESISTANCE STANDARD GRADE VERTICAL GRADE	50" (1270 mm) 20" (500 mm)	50" (1270 mm) 20" (500 mm)
DART IMPACT RESISTANCE STANDARD GRADE VERTICAL GRADE	20" (500 mm) 8" (200 mm)	20" (500 mm) 8" (200 mm)
DIMENSIONAL STABILITY STANDARD GRADE Machine Direction Cross Direction VERTICAL GRADE Machine Direction Cross Direction	.33% .9% .7% 1.2%	.5% max. .9% max. .7% max. 1.2% max.
SURFACE WEAR RESISTANCE (cycles)	greater than 400 cycles	400 cycles min.

■ INSTALLATION

High-pressure decorative laminate is not a structural material and must be bonded to a suitable substrate (45 lb. density particleboard, medium-density fiberboard (MDF) or high-density fiberboard (HDF)) using contact, PVAc, urea, or resorcinol adhesives, following the adhesive manufacturer's instructions. Care should be taken to minimize excessive moisture imbalance between the laminate and substrate by conditioning the materials in the environment in which they will be applied for at least 72 hours. Consult the National Electrical Manufacturers Association (NEMA) publication LD 3-2005, or the Architectural Woodworking Institute (AWI) Quality Standards for fabrication guidelines.

■ MAINTENANCE

Lamin-Art® general purpose high-pressure decorative laminate may be cleaned with a damp cloth, warm water and a mild soap or household cleaning products. Cleansers that contain abrasives, acids or alkalis may damage the decorative surface and are not recommended. Stubborn stains may require the use of hypochlorite bleach followed by a clean water rinse.

■ WARRANTY

Lamin-Art®, Inc. expressly warrants that its laminates are free of defects in material and workmanship, are of merchantable quality and conform to accepted tolerances of applicable manufacturing specifications. Inasmuch as Lamin-Art has no control over the end products fabricated with the materials sold, no warranty or guarantee is expressed or implied other than those set forth above and is limited to the replacement cost of the laminate alone.