

## Pearlescence® HPL

### ■ PRODUCT DESCRIPTION

Pearlescence® high-pressure decorative laminates are a series of solid color, abstract, metallic patterns and woodgrain prints which feature inks with pearlescent particles to create a dramatic visual effect when exposed to light.

### ■ PRODUCT COMPOSITION

Pearlescence® high-pressure decorative laminates are manufactured by laminating phenolic resin-impregnated kraft sheets with melamine resin-impregnated decorative sheets. In order to maximize the interaction of light with the embedded pearlescent inks in the decorative sheet, Pearlescence laminates are treated with less melamine-resin than our general purpose high-pressure decorative laminates. 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).

### ■ RECOMMENDED USES

By reducing the amount of melamine resin in the pearlescent decorative sheets used to manufacture Pearlescence® laminates, the wear resistance of these items is also impacted. Pearlescence products, with the exception of those specified in Catalyst® finish, do not meet National Electrical Manufacturers Association (NEMA) standards for abrasion/scratch resistance. Therefore we recommend they only be specified for vertical and/or non-working horizontal surfaces exposed to minimal wear.

Lamin-Art Pearlescence products may also be specified in Textured or Velva-Tex finish with **Oyster Shield High-Wear Protection™**. This exclusive surface enhancement provides these products with the same wear resistance properties as our general purpose high-pressure decorative laminates for specification on horizontal applications and high-wear surfaces. 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). May be specified with Oyster Shield High-Wear Protection™ for horizontal and/or high-wear applications.
Gloss	A smooth mirror-like finish suitable for applications where high reflectivity is desired (LRV 100.0). Recommended for vertical/low-wear applications only.
Velva-Tex	A soft finish similar to hand-rubbed oiled hardwood (LRV 16.0). May be specified with Oyster Shield High-Wear Protection™ for horizontal and/or high-wear applications.
Chrysalis®	A gently-etched pattern which creates a brilliance and texture similar to that of brushed metal (LRV 10.0). Recommended for vertical/low-wear applications only.
Catalyst®	A spiral-etched pattern which creates a brilliance and texture similar to that of brushed metal (LRV 18.0). Suitable for horizontal/high-wear applications.
Wisp	An optical finish of soft linear silhouettes undulating from glossy to matte lengthwise along the sheet (LRV 25.0). Recommended for vertical/low-wear applications only.
Crisscross	A subtle tactile grid of fine intersecting lines running lengthwise and widthwise along the sheet (LRV 15.0). Recommended for vertical/low-wear applications only.
GRADES	
<b>STANDARD GRADE GP48</b> (.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). We do not recommend using heat to form Pearlescence® items to a smaller radius.
<b>VERTICAL GRADE GP28</b> (.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). We do not recommend using heat to form Pearlescence® items to a smaller radius.

## ■ PERFORMANCE

Pearlescence® 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.

		TEST RESULTS FOR LAMIN-ART PEARLESCENCE HPL						
NEMA TEST PUB LD3-2005, SECTION 2	NEMA STANDARD	TEXTURED & VELVA-TEX	TEXTURED & VELVA-TEX w/ OS	GLOSS	CHRYSLIS®	CATALYST®	WISP	CRISSCROSS
<b>LIGHT RESISTANCE</b>	Slight Effect	Slight Effect	Slight Effect	Slight Effect	Slight Effect	Slight Effect	Slight Effect	Slight Effect
<b>CLEANABILITY (cycles)</b>	20 max.	7	7	7	7	7	7	7
<b>STAIN RESISTANCE</b> Reagents 1-10 Reagents 11-15	No Effect Slight Effect	No Effect No Effect	No Effect No Effect	No Effect No Effect	No Effect No Effect	No Effect No Effect	No Effect No Effect	No Effect No Effect
<b>BOILING WATER RESISTANCE</b>	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect
<b>HIGH TEMPERATURE RESISTANCE</b>	Slight Effect	Slight Effect	Slight Effect	Slight Effect	Slight Effect	Slight Effect	Slight Effect	Slight Effect
<b>BALL/DART IMPACT RESISTANCE</b> Standard Grade Vertical Grade	50"/20" (1270/500 mm) 20"/8" (500/200 mm)	50"/20" (1270/500 mm) 20"/8" (500/200 mm)	50"/20" (1270/500 mm) 20"/8" (500/200 mm)	50"/20" (1270/500 mm) 20"/8" (500/200 mm)	50"/20" (1270/500 mm) 20"/8" (500/200 mm)	50"/20" (1270/500 mm) 20"/8" (500/200 mm)	50"/20" (1270/500 mm) 20"/8" (500/200 mm)	50"/20" (1270/500 mm) 20"/8" (500/200 mm)
<b>DIMENSIONAL STABILITY</b> Standard Grade Machine Direction Cross Direction Vertical Grade Machine Direction Cross Direction	.5% max. .9% max.  7% max. 1.2% max.	.33% .9%  .7% 1.2%	.33% .9%  .7% 1.2%	.33% .9%  .7% 1.2%	.33% .9%  .7% 1.2%	.33% .9%  .7% 1.2%	.33% .9%  .7% 1.2%	.33% .9%  .7% 1.2%
<b>WEAR RESISTANCE (cycles)</b>	400 (min.)	100-300	> 400	100-300	100-300	> 400	100-300	100-300

## ■ 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

Pearlescence® 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.