



# CABINET LINER™ INDUSTRIAL PANEL

## Product Description:

Cabinet Liner™ is an economical, decorative, polyester overlaid plywood with exceptional surface durability for high humidity, structural, interior applications

## Panel Construction & Moisture Resistance:

Cabinet Liner™ is constructed of a polyester overlay on hardwood faced plywood with Douglas Fir/Hemlock inner plys. It is produced with a 2 Step layup, has a waterproof glue bond and meets APA PS 1-07 specifications. All Olympic products are made in the USA.



## Features and Benefits:

- Economical, Ready to use, No further finishing required
- Durability similar to HP laminates: meets NEMA LD-3 durability tests
- High strength, light weight
- Waterproof bond for water/high humidity resistance
- High Face/Edge screwholding
- Very low Formaldehyde - meets proposed CARB requirements

## Working Faces/Treatment:

Cabinet Liner™ is available with 1 or 2 working faces. Single face panels are provided with an HDO back

Cabinet Liner™ is available in China White, solid color finish. It has a durable, low maintenance, velvet surface. Light Grain and frosting may be present in the face. Non standard patterns and colors meeting volume requirements are available upon request.

## Working Edges/Treatment:

- Edges are factory sawn, without edge treatment.
- For interior applications requiring edge banding, do not edge seal, otherwise, seal all edges using clear or pigmented Pre-Form by Nox-Crete or equivalent. Pre-Form can not be over coated.

## Applications:

- Furniture, cabinets, displays, fixtures
- Shelving & partitions

## Limitations:

Cabinet Liner™ is not intended for boat hulls or decks, but may be used in damp/humid environments. Do not exceed design limitations imposed by the shelving span tables. Cabinet Liner™ is designed as a finished surface and should not be over coated or laminated.

## Thicknesses & Sizes:

Cabinet Liner™ is available in 3/8", 1/2", 5/8", 3/4" & 1" thicknesses. Standard panel sizes are 4' X 8' only. Non standard thicknesses meeting volume requirements are available.

- Economical, Ready to use
- Durability similar to HP laminates
- High strength, light weight
- Waterproof bond = water/humidity resistance
- High Face/Edge screwholding

## Product Grade

Standard product and special product are shipped allowing up to 10% total Good One Side (G1S) and/or Shop, identified & priced separately. Shipments of G1S and shop only may be available. Check with sales.

## Technical Data Applicable Standards

All panels are manufactured by Olympic Panel Products per Product Standard PS 1-07. This standard is available at [www.apawood.org](http://www.apawood.org).

Physical Properties <sup>1</sup>	3/8" to 1/2"	5/8" to 1-1/8"
Modulus of Rupture <sup>2,3</sup>	6,670 psi	6,860 psi
Modulus of Elasticity <sup>2,3</sup>	795,050 psi	853,565 psi
Lineal Expansion <sup>2,3</sup>	0.056%	0.050%
Thickness Swell	3.8%	3.8%
Water Absorption (24 Hours)	6.0%	6.0%
Internal Bond <sup>2</sup>	180 psi	134 psi
Shelf Stiffness EI ASTM D-3043 C	74,770 lb-in <sup>2</sup> /ft <sup>6</sup>	606,720 lb-in <sup>2</sup> /ft <sup>6</sup>
Shelf Bending FbS ASTM D-3043 C	1,615 lb-in/ft <sup>6</sup>	6,460 lb-in/ft <sup>6</sup>
Face Screw holding <sup>2</sup>	430 lbs	449 lbs
Edge Screw holding <sup>2</sup>	Not Applicable	408 lbs
Moisture Content <sup>2</sup> ASTM D-1037	6-9%	6-9%
Specific Gravity <sup>2</sup> ASTM D-1037	.592	.527
Density <sup>2</sup> ASTM D-1037	36.9 lbs/ft <sup>3</sup>	32.9 lbs/ft <sup>3</sup>
Flame Spread ASTM E-84	76 – 200 <sup>5</sup>	76 – 200 <sup>5</sup>
Smoke Developed ASTM E-84	25 – 270 <sup>5</sup>	25 – 270 <sup>5</sup>
Flame/Smoke spread rating E-84	Class C	
Formaldehyde level E-1333	0.01 parts/million	

Panel Tolerances <sup>2</sup>	3/8" to 3/4"	1" & greater
Thickness Tolerance	+/- 1/32" (.031")	+/- 5%
Length & Width Tolerance	+0, -1/16" (.062")	+0, -1/16" (.062")
Squareness	1/16" (.062")	1/16" (.062")
Straightness	1/16" (.062")	1/16" (.062")

<sup>1</sup>Panel Average. Product averages vary for individual thicknesses, consult sales or technical staff for exact properties <sup>2</sup>All tolerances and specifications apply at the time of manufacture.

<sup>2</sup>ANSI 208.1 test result

<sup>3</sup>Calculations based on test averages of along and across grain

<sup>4</sup>Shelving physical properties based on limited 5 panel average. See web site for load table

<sup>5</sup>Flame and Smoke spread properties based on engineering calculations

<sup>6</sup>Shelving stiffness/bending properties are based on a limited 5 panel average

## Finished Surface Specifications

Polyester overlays meet NEMA standards for surface durability.

Test	Description	China White	Cleanability
LD3-3.3	Light Resistance	SL	NA
LD3-3.4	Stain Resistance / Cleanability	NE	NA
LD3-3.4	Water	NE	0
LD3-3.4	Ethanol	NE	0
LD3-3.4	Acetone	NE	0
LD3-3.4	Ammonia	NE	0
LD3-3.4	Lemon Juice	NE	0
LD3-3.4	Vegetable Oil	NE	0
LD3-3.4	Coffee	NE	0
LD3-3.4	Tea	NE	0
LD3-3.4	Ketchup	NE	0
LD3-3.4	Mustard	NE	0
LD3-3.4	Iodine	NE	2
LD3-3.4	Ink	NE	2
LD3-3.4	Pencil	NE	2
LD3-3.4	Crayon	NE	3
LD3-3.4	Shoe Polish	NE	3
LD3-3.5	Boiling Water Resistance 212 F	NE	NA
LD3-3.6	High Temperature Resistance 350 F	NE to SL	NA
LD3-3.8	Ball Impact Resistance	NE	NA
LD3-3.10	Radiant Heat/60 seconds 550 F	NE	NA
LD3-3.13	Wear Resistance – Prints S-42 strips	125 cycles	NA
LD3-3.13	Wear Resistance – White S-42 strips	400 cycles	NA

NE = No Effect; SL = Slight Effect; M = Moderate; S = Severe Effect; P = Pass; NA = not applicable Cleanability

0 = Cleaned with water; 1 = Cleaned with commercial cleaner & sponge rubs  
 2 = Required #1, baking soda, & a brush 3 = Required #2 & nail polish remover  
 4 = Required #3 & bleach m; 5 = Test reagent remained after #4

## Cabinet Liner™ Shelving Load Support Table

Span <sup>1</sup>	1/2"		5/8"		3/4"	
	ℓ/240	ℓ/180	ℓ/240	ℓ/180	ℓ/240	ℓ/180
4"	1,899	1,899	2,340	2,340	2,870	2,870
8"	730	730	900	900	1,104	1,104
12"	452	452	557	557	683	683
16"	301	323	404	404	495	495
19.2"	176	225	331	331	405	405
24"	90	121	175	230	227	303
30"	46	61	91	121	120	160
32"	38	50	75	100	99	133
36"	26	35	53	70	70	94
40"		26	38	51	52	69
48"			25	34	34	46
60"						23

Span <sup>1</sup>	1/2"		5/8"		3/4"	
	ℓ/240	ℓ/180	ℓ/240	ℓ/180	ℓ/240	ℓ/180
4"	1,457	1,457	1,811	1,811	2,208	2,208
8"	560	560	696	696	849	849
12"	347	347	431	431	526	526
16"	229	251	280	280	381	381
19.2"	130	173	195	195	312	312
24"	65	86	125	125	230	230
30"	32	43	76	80	145	147
32"	27	35	63	70	119	129
36"		25	44	55	83	102
40"			32	42	61	81
48"			21	28	40	53
60"					20	26

Span <sup>2</sup>	1/2"		5/8"		3/4"	
	ℓ/240	ℓ/180	ℓ/240	ℓ/180	ℓ/240	ℓ/180
4"	2,374	2,374	2,926	2,926	3,588	3,588
8"	913	913	1,125	1,125	1,380	1,380
12"	349	465	652	697	814	854
16"	142	189	275	367	357	476
19.2"	80	107	158	211	208	278
24"	40	53	80	106	106	142
30"	20	26	40	53	54	72
32"		22	33	44	44	59
36"			23	30	31	41
40"				22	22	30

Span <sup>2</sup>	1/2"		5/8"		3/4"	
	ℓ/240	ℓ/180	ℓ/240	ℓ/180	ℓ/240	ℓ/180
4"	1,822	1,822	2,263	2,263	2,760	2,760
8"	701	701	870	870	1,062	1,062
12"	259	345	498	498	657	657
16"	102	136	237	280	446	476
19.2"	57	75	133	177	253	337
24"	28	37	66	88	126	168
30"			33	44	63	84
32"			27	36	51	69
36"				25	36	48
40"					26	34

Maximum allowable loads are psf. Uniform loading is assumed. Loads are for dry conditions. For wet conditions, reduce loads approximately 25%. Inquire for precise data. Basic allowable stresses (bending F b and shear F s ) increase 15% for shelving use per the APA experience factor. Pallet design normally is based on higher allowable loads than given. NOTES: <sup>1</sup>Spans are center-to-center of supports. <sup>2</sup> Span is out-to-out of supports. Allow for 1-1/2" supports on each end.

## Standard Packaging:

Thickness	Cabinet Liner™ 2 Face Average* Weight lbs./SF	Cabinet Liner™ 2 Face Average* Weight lbs./panel	Pieces per Unit
3/8"	1.120	35.8	88
1/2"	1.617	51.7	66
5/8"	1.850	59.2	50
3/4"	2.227	71.3	44
1"	3.000	96.0	33

Average product weights may vary +/- 10%

## Suitability for Use and Warranty

Nothing herein constitutes a warranty express or implied, including any warranty of merchantability or fitness for use, nor is protection from any law or patent to be inferred. The exclusive remedy for all claims is replacement of materials. Contact the sales office for a copy of the complete Olympic Terms and Conditions of Sale.

## Warehouse Storage and Handling

- Store in a dry, clean, well-ventilated area indoors.
- Avoid temperatures and moisture extremes. Allow panels to equalize for 72 hours or more before use.
- Pieces must not be stored in contact with the ground.
- Limit the stacking height to four or five units. Separate units with clean, dry spacers of uniform thickness, aligned carefully. Use three spacers for panels 8' long.

## Environmental Impact

Olympic Panel produces overlaid softwood plywood from veneer peeled at the Olympic plant and from purchased veneer. All veneer and plywood panels are manufactured in accordance with the following principals:

- Logs and veneer originate in sustainable, secondary growth forests, which are managed according to Federal and State laws and regulations.
- Olympic Panel uses energy efficient, environmental control technology to reduce emissions to levels below federal and state guidelines.
- Olympic Panel uses process by-products to produce energy.
- Olympic's products are renewable, biodegradable and recyclable.

## Warnings

This product contains 0.01 parts/million of residual formaldehyde from manufacturing. This product will generate wood dust from sawing, sanding, or shaping. Material Safety Data Sheets are available on Olympic's Web site at [www.olypanel.com](http://www.olypanel.com) and upon request.

Structural panels (PS-1) are exempt from California Air Resources Board regulations, however, this product is below CARB limits for all uses.

## INDUSTRIAL PANELS

- **DecraGuard®** - Polyester overlay for marine partitions, bulkheads & cabinets.
- **Cabinet Liner™** - Polyester overlay for cabinets, displays and fixtures.
- **Tuf-Tred®** - Skid-resistant, embossed, poly-glass overlay.
- **SkidGuard®** - Slip-resistant, screen embossed HDO.
- **Tempered Plyron®** - hardboard faced/veneer core, paintable, wear-resistant flooring panels.
- **Standard Plyron®** - paintable panels for furniture, cabinet, display, fixture & partitions.

Plyron® is a registered trademark of the APA, the Engineered Wood Association

## Olympic Panel Technical/Sales Information

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[www.olypanel.com](http://www.olypanel.com)

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