



PREFINISHED UV SIGN BOARD

Product Description:

Prefinished UV is prefinished, satin gloss, vinyl letter/Ink Jet/paint ready, MDO plywood with a 2 year limited warranty. It is an excellent surface for wide layout digital printers, vinyl letters and sign paints

Panel Construction & Moisture Resistance:

Prefinished UV is constructed of a proprietary, Urethane-acrylic, cross-linked, UV cured finish applied to Medium Density Overlaid Douglas Fir/Hemlock plywood. It is manufactured with a 2 Step layup, a waterproof glue bond and meets APA PS 1-07 specifications. All Olympic products are made in the USA.



Features and Benefits:

- Smooth, satin finish is vinyl letter/digital print/paint ready
- Superior scratch, chip & mar resistance
- Exceptional weatherability
- Balanced construction maximizes dimensional stability
- 2 year warranty against flaking and peeling
- Waterproof bond for water/high humidity resistance
- Very low Formaldehyde - meets proposed CARB requirements

Working Faces/Treatment:

Prefinished UV is available with 1 or 2 working faces. Panels with a single working face are provided with an MDO backer.

It includes in a solid, satin gloss white finish with a reflectance of 25 to 35. The urethane-acrylic, cross-linked, UV cured finish consists of three thermo-set base coats and 1 cross-linked, UV cured top coat. It is a hard, durable and chip & scratch resistant finish.

Working Edges/Treatment:

- Edges are factory sawn & sealed to match the face.
- Fill, prime & top coat all exposed wood with at least two coats of acrylic, polyurethane or polyurethane-acrylic primers & paints or exterior grade caulking. See www.olypanel.com for Technical Data.

Applications:

- Vinyl letter, digital print and painted signs for the quick sign industry.
- Furniture, cabinets, displays & fixtures.
- Shelving & partitions.
- Truck body & trailer liners/doors.

Limitations:

Prefinished UV must be edge sealed for prolonged exposure in exterior applications. For structural applications, consult Olympic Panel for load tables or other data.

Thicknesses & Sizes:

Prefinished UV is available in 1/2" thickness. Standard panel sizes are 4' X 8' & 10' only. Non standard thicknesses meeting volume requirements are available.

- Smooth, satin finish
- Vinyl letter, digital print & paint ready
- Superior scratch, chip & mar resistance
- Exceptional weatherability
- Maximum dimensional stability
- 2 year warranty against flaking and peeling

Product Grade

Standard products are shipped 100% on grade, unless specified otherwise. Special products 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 PS1-07. This standard is available at www.apawood.org.

Physical Properties ¹	1/2"
Modulus of Rupture ^{2,3}	6,860 psi
Modulus of Elasticity ^{2,3}	853,565 psi
Lineal Expansion ^{2,3}	0.050%
Thickness Swell	3.8%
Water Absorption (24 Hours)	6.0%
Internal Bond ²	134 psi
Face Screw holding ²	449 lbs
Edge Screw holding ²	408 lbs
Moisture Content ² ASTM D-1037	6-9%
Specific Gravity ² ASTM D-1037	.527
Density ² ASTM D-1037	32.9 lbs/ft ³
Flame Spread ASTM E-84	76 - 200 ⁶
Smoke Developed ASTM E-84	25 - 270 ⁶
Flame/Smoke spread rating E-84	Class C
Formaldehyde level E-1333	0.0 parts per million

Panel Tolerances ²	1/2"
Thickness Tolerance	+/- .132" (.031")
Length & Width Tolerance	+0, -.116" (.062")
Squareness	1/16" (.062")
Straightness	1/16" (.062")

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

²ANSI 208.1 test result

³Calculations based on test averages of along and across grain

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

⁵Flame and Smoke spread properties based on engineering calculations

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

Weatherability

Prefinished UV					
EMMAQUA* Outdoor Accelerated Weathering Test					
Simulates 3.4 years in Florida and 2.9 years in Arizona					
Test	CHALK UNWSH	COLOR CHNGE UNWSH	CRACK UNWSH	BLIST UNWSH	CHECK UNWSH
ASTM #	D 4214-97	D1729-96 (2003)	D661-93 (2000)	D 714-02	D660-93 (2000)
Coating Applied	None	None	Barely Short Random with Wrinkling	None	None

*Equatorial Mount with Mirrors for Acceleration with Water

CHALK UNWSH = Chalking, Unwashed Area: ASTM D 4214-97 - Test Methods for Evaluating Degree of Chalking of Exterior Paint Films (Method A/Cloth Method)

COLOR CHNGE UNWSH = Visual Color, Unwashed Area: ASTM D1729-96 (2003) - Practice for Visual Appraisal of Color and Color Difference of Diffusely-Illuminated Opaque Materials

CRACK UNWSH = Cracking, Unwashed Area: ASTM D661-93 (2000) - Method for Evaluating Degree of Cracking of Exterior Paints

BLIST UNWSH = Blistering, Unwashed Area: ASTM D 714-02 - Method for Evaluating Degree of Blistering of Paints

CHECK UNWSH = Check, Unwashed Area: ASTM D660-93 (2000) - Method for Evaluating Degree of Checking of Exterior Paints

Standard Packaging:

Thickness	Sign Ready UV 1 Face, MDO/Prime Back Average* Weight lbs./SF	Sign Ready UV 2 Face Average* Weight lbs./SF	Pieces per Unit
1/2"	1.586	1.580	66

Average product weights may vary +/- 10%

Prefinished UV Lettering & Finishing Instructions

- Vinyl Tape:** Prefinished UV™ is designed for use with most popular vinyl graphic and lettering tapes. It has shown good performance for adhesion and transfer properties with the following tapes:
 - Gerber 3M® Scotchcal™ 220 & 280 and Quantum™ 2000
 - Rexcal® (PMK)
 - Arlon Calor® II
 - Avery Graphics™ A4, A6 & A9 Opaque
 - ORACAL® 651, 751 & 851
 - Qual-Cal
 - Styletech™ V2000 Series & V4000 SeriesFollow the tape manufacturers application procedures.
- Paintability:** Prefinished has exhibited good adhesion with the following sign paints:
 - One Shot Chromatic® Lettering and Background Enamel & "1 Shot"® Lettering Enamel
 - Weather King II
 - Norwest 201 WhiteRecommendation: perform an adhesion test to ensure the results.
- Wide Format, Digital printers:** Prefinished UV is designed for most wide format, digital printers using UV cured inkjet technology.
- Edge Seal:** Fill and reseal cut edges or exposed wood at holes by:
 - applying a least two coats of acrylic, polyurethane or polyurethane-acrylic based primers and paints;
 - applying a thin coating of paintable exterior grade caulking, then applying primer and paint as above or;
 - sealing the edges with exterior grade caulking, then a suitable edge cap (moulding).

Limited 2 Year Warranty

Olympic Panel Products warranties that the Olympic coating system applied to PREFINISHED UV™ MDO plywood, will not flake or peel for a period of 24 months from date it is put into service, or 30 months from date of production. This applies only to the original factory applied coating system.

Remedy:

Olympic Panel Products' sole and exclusive obligation under this warranty will be at its sole election to: (a) refinish or repair such panel in place, or (b) make an allowance equal to twice Olympic Panel Products' original selling price, pro-rated according to the following schedule:

- During the first 24 months of warranty period; reimbursement = 100%.
- During months 25 through 36 of warranty period; reimbursement = 75%.
- During months 37 through 48 of warranty period; reimbursement = 50%.
- During months 49 through 66 of warranty period; reimbursement = 25%.

End User Responsibilities:

- Product must be handled consistent with good handling practices used with pre-finished products.
- All cut, exposed edges must be properly sealed and refinished. A minimum of two coats, 4-5 mils wet each (2 mils dry each) of a high quality exterior acrylic edge coating system is considered a minimum.
- Small surface scratches should be touched up with Sherwin Williams Order #6405-14832, Exterior Latex Gloss and Extra White tinting base #6405-14774.
- Proper documentation of purchase date must be presented with any claim.
- Product for which claims are submitted must be available for inspection by Olympic Panel Products, or one of its representatives, for at least 60 days after any claim is submitted.

Exclusions:

- Failure due to causes other than the coatings themselves, or application and curing of the coating system.
- Damage caused by acts of God, fire, physical defacement or abrasion.
- Damage caused by mishandling, or improper installation.
- Failure caused from drilling, routing or machining the signboard surface.
- Failure due to aggressive environments; i.e. salt spray, exposure to chemical fumes.
- Failure due to improper edge finishing, or improper touch up.
- Panels installed at more than 25° from vertical in exterior applications.

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, four or five spacers for longer panels.

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 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 0.0 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 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.

Sign Board

- Highway® HDO** - Premium sign panel, prepped for reflective film.
- SignReady UV™** - Prefinished, high gloss, paint/vinyl letter ready, 5 yr limited warranty.
- Pre-finished UV™** - Prefinished, satin gloss, paint/vinyl letter ready, 2 yr limited warranty.
- Signal® MDO** - Two Step®, hardwood faced, tightly laid core, ideal for cutout letters.
- Pre-Primed MDO** - Exclusive, primed overlay, TwoStep®.
- Crezon®/Two Step® MDO** - Premium paint grade.
- Guardian® MDO** - Standard paint grade.

Olympic Panel Technical/Sales Information

204 East Railroad Avenue; Shelton, WA 98584

Sales phone: 800-782-7265 Sales Fax: 360-432-5081

www.olypanel.com

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Effective: 11/2007; Replaces: 8/2007

