



LENDERINK TECHNOLOGIES

THE NEW DRY PROCESS WONDER BOARD!

Benefits of using PolyBak:

- .010" to .024" thick
- Low Cost from \$0.08 – \$0.20/sf
- No Formaldehyde added
- Extremely Strong!
- Very Flexible!
- Water Resistant
- Reduces panel warping
- Class A flame spread rating
- No VOC's!
- Available in Sheets & Rolls up to 1800' long
- Improves Balance & stability
- Unlimited Shelf Life!
- Colors: Dark Brown, Brown & Ivory

Uses for PolyBak:

- Veneer Backer
- Exterior Siding Components
- Packaging
- Protection
- Structural Overlay for Foam Panels
- Moisture Barrier
- Can be Die Cut, Laser Cut, Painted or Printed

Our versatile line of dry film adhesives can bond almost any surface!

Lenderink Technologies, Inc.

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PolyBak

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A GUIDE TO CHOOSING THE RIGHT POLYBAK MODEL

ALL POLYBAK MODELS ARE GREENGUARD CERTIFIED



PolyBak Model Number	PRIMARY CONSIDERATION →		COST	STRENGTH	STRENGTH	FLAME RESISTANCE	APPLICATION	APPLICATION	APPLICATION	NEED FOR FLEXIBILITY OR RIGIDITY	AVAILABLE LENGTHS & WIDTHS
	Nominal Thickness	Color									
			Cost ranking for each version of PolyBak 1 is lowest cost 7 is highest cost	PolyBak's MD tensile strength compared to typical <u>.020" thick saturated kraft backer</u>	PolyBak's tensile strength compared to premium domestic <u>.024" thick vertical-grade phenolic backer</u>	Flame Spread Rating	Use as an overlay or to balance veneered substrates	Use to balance laminated substrates	Use for adhering directly to wood veneers to give veneers improved flexibility & stability	Flexibility and Rigidity Rating	As many as 5 Lengths & 5 Widths Available
PGB	0.011"	Brown	1	134%	33%	CLASS A	GOOD	GOOD	X	Best Flexibility & Less Rigidity So flexible it can be folded	Lengths: 97", 109", 121", 145", 1800-Feet Widths: 25", 31", 49" and 61"
PB42	0.011"	Dk. Brown	2	152%	37%	CLASS A	BEST	BETTER	X	Extreme Flexibility with good rigidity	Lengths: 97", 109", 121", 145", 1800-Feet Widths: 25", 31", 37", 49" and 61"
PB69VNR	0.020"	Dk. Brown	3	207%	50%	CLASS A	BETTER		X	Excellent Flexibility with better rigidity	Lengths: 97", 109", 121", 145", 1800-Feet Widths: 25", 31", 37", 49" and 61"
PB69	0.020"	Dk. Brown	4	248%	60%	CLASS A		GREAT	X	Excellent Flexibility with better rigidity	Lengths: 97", 109", 121", 145", 1800-Feet Widths: 25", 31", 37", 49" and 61"
PB67VNR	0.015"	Ivory	5	214%	52%	CLASS A	BETTER		X	Excellent Flexibility with better rigidity	Lengths: 97", 109", 121", 145", 1800-Feet Widths: 25", 31", 37", 49" and 61"
PB90	0.024"	Dk. Brown	6	325%	79%	CLASS B		EXCELLENT	X	Very good flexibility with best rigidity	Lengths: 97", 109", 121", 145", 1800-Feet Widths: 25", 31", 37", 49" and 61"
PB90HP	0.024"	Dk. Brown	7	359%	88%	CLASS B		BEST		Very good flexibility with best rigidity	Lengths: 97", 109", 121", 145", 1800-Feet Widths: 25", 31", 37", 49" and 61"

FOR MORE INFORMATION VISIT



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Why you'll never switch back

FEATURES	POLYBAK	Typical High Pressure Laminate (Phenolic) Backer	Typical Saturated Kraft Paper Backer	THE POLYBAK DIFFERENCE
COMPOSITION	Kraft liner board impregnated with polymer resin	Saturated papers that are dried, stacked in layers, and pressed together under heat	Saturated kraft paper backer	Polybak is made with a proprietary system.
FLEXIBILITY, BREAKAGE RESISTANCE, AND EASE OF HANDLING	EXCELLENT	FAIR	LIMITED	With Polybak you're likely to have less damage during storage and handling, and increased productivity because of the ease with which it is applied.
DOES IT CONTAIN ADDED FORMALDEHYDE WITH OFF-GAS POTENTIAL?	NO	YES	YES	Polybak does not emit any detectable volatile compounds.
PAINTABILITY	EXCELLENT	FAIR	UNKNOWN	Because Polybak is easily painted and extremely flexible, it's perfect for a variety of applications including post-forming.
TENSILE STRENGTH	VERY GOOD	EXCELLENT	FAIR	One of several Polybak strengths will be right for your application—whether balancing veneer or high pressure laminate.
FLAME SPREAD RATING	"A" RATING	"B" RATING	"A" or "B" RATING	An "A" Flame Spread Rating is an important consideration in many applications.
MOISTURE RESISTANCE	GOOD	VERY GOOD	FAIR	Unlike other paper backers, Polybak is manufactured by impregnating Kraft linerboard with a polymer resin, so Polybak has good moisture resistance.
SHELF LIFE	UNLIMITED	LIMITED	VERY LIMITED	Polybak is a stable product with unlimited shelf life when stored in a cool, dry location.
COMMONLY USED AS A BACKER FOR VENEER SURFACES?	YES	NO	YES	Polybak is available in a variety of weights and thickness, so it can be matched to the balancing and dimensional stability requirements of the substrate surface.
PRICE ESTIMATE AS A PERCENTAGE OF HPL BACKER PRICING	40%—75% of average HPL backer pricing depending on performance requirements	SAME	30%—60% of average HPL backer pricing depending on brand or performance requirements	Polybak offers superior performance to other typical paper backers at competitive pricing. Polybak performs similar to a high pressure laminate backer, but at a substantial savings.

Uses and benefits of PolyBak

PolyBak is a single-ply sheet for use as:

- A backer for balancing substrates faced with laminates or veneers
- A backer adhered directly to veneers for improved flexibility, strength and stability
- An overlay on plywoods and other substrates for improved stability and moisture resistance

When applied properly, PolyBak:

- Improves the **balancing** and **dimensional stability** of the laminated substrate
- Reduces the risk of panel **warping** due to climatic changes
- Has excellent **moisture resistance**
- Class A **flame spread rating**
- Excellent **tensile strength** and **flexibility**
- Has **no added formaldehyde**
- Is **paintable**

How is PolyBak made?

PolyBak is manufactured by impregnating Kraft liner board with a polymer resin using a proprietary system. This resin system contains no formaldehyde. The finished product does not emit any detectable volatile compounds. This characteristic is unique to the **PolyBak** system as opposed to other typical commercial backers. With proper storage, **PolyBak** is a stable product with an unlimited shelf life. **PolyBak** should be stored in a cool, dry location.



Physical Properties and Product Codes

	POLYBAK PB42	POLYBAK PB67VNR Veneer applications	POLYBAK PB69	POLYBAK PB69VNR Veneer applications	POLYBAK PB90	POLYBAK PB90HP High Performance
Nominal Thickness <i>(inches)</i>	0.011	0.015	0.020	0.020	0.024	0.024
Weight <i>(lb/sq ft)</i>	0.05	0.081	0.090	0.083	0.12	0.122
Density <i>(lb/cu ft)</i>	64	65	66	61	69	76
Tensile MD <i>(Machine Direction psi)</i>	16,400	12,200	15,100	8,100	15,700	18,100
Tensile CD <i>(Cross Direction psi)</i>	7,000	7,500	7,900	6,900	8,000	8,700
Dimensional Stability <i>% water absorption in 50-90% relative humidity</i>	6%	7%	7%	7%	8%	7%
Water Absorption <i>% weight gained w/2-hour soak</i>	32%	27%	30%	32%	24%	22%
Volatile Content (%)	0	0	0	0	0	
Color	Dark Brown	IVORY	Dark Brown	Dark Brown	Dark Brown	Dark Brown

Product Sizes

PolyBak is available in standard sizes.

Sheets

Sheet Widths:*	25", 31", 37", 49", 61"
Sheet Lengths:	97", 109", 121", 145"

Rolls

Standard Widths:*	25", 31", 37", 49", 61"
Standard Footage:	1800 Linear Feet (L/F)

***PB69VNR** (veneer strength) is only available in 25" and 49" widths.
PB42 is not available in 37" width.

All rolls are wound on 6" (ID) cores (other sizes available upon request).

Laminating Procedures

PolyBak is bondable to various substrates, particleboard, MDF, etc., using most standard cold setting adhesives such as PVA or contact cement. When laminating, allow the laminate, substrate and **PolyBak** backer to reach equilibrium moisture before gluing. This usually requires that all materials be exposed to ambient conditions for a minimum of 48 hours (70 F to 75 F; 45-50% RH). Good air circulation in storage and layup areas is highly recommended. Consult your adhesive manufacturer for adhesive open times, spread rates, curing times and pressure applications.



Physical Property Comparison

FEATURES	POLYBAK PB42	POLYBAK PB67VNR Veneer applications	POLYBAK PB69	POLYBAK PB69VNR Veneer applications	POLYBAK PB90	POLYBAK PB90HP High Performance	Typical High Pressure Laminate Backer	Typical Saturated Kraft Paper Backer
Nominal Thickness (inches)	0.011	0.015	0.020	0.020	0.024	0.024	.02—0.028	.017—0.037
Density (lbs/cu ft)	64	65	66	61	69	76	75	36—44
Tensile MD (Machine Direction psi)	16,400	12,200	15,100	8,100	15,700	18,100	19,100	4,600—7,500
Tensile CD (Cross Direction psi)	7,000	7,500	7,900	6,900	8,000	8,700	11,000	3,000—4,250
Dimensional Stability % Water absorption in 50-90% relative humidity	6%	7%	7%	7%	8%	7%	3%	unknown
Water Absorption % Weight gained w/2-hour soak	32%	27%	30%	32%	24%	22%	16%	71—84%
Volatile Content (%)	0	0	0	0	0	0	unknown	2—9%
Color	Dark Brown	IVORY	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown or Black

“Try PolyBak and you’ll never switch back”