

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 (inches)	0.011	0.015	0.020	0.020	0.024	0.024
Weight (lb/sq ft)	0.05	0.081	0.090	0.083	0.12	0.122
Density (lb/cu ft)	64	65	66	61	69	76
Tensile MD (Machine Direction psi)	16,400	12,200	15,100	8,100	15,700	18,100
Tensile CD (Cross Direction psi)	7,000	7,500	7,900	6,900	8,000	8,700
Dimensional Stability % water absorption in 50-90% relative humidity	6%	7%	7%	7%	8%	7%
Water Absorption % weight gained w/2-hour soak	32%	27%	30%	32%	24%	22%
Volatile Content (%)	0	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.