

## Uses 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, moisture resistance, balancing, and a smooth paintable surface.

### Performance Features of PolyBak:

- Improves the **balancing** and **dimensional stability** of the laminated substrate,
- Reduces the risk of panel **warping** due to climatic changes,
- Provides **moisture resistance**,
- Class A **flame spread rating** on all thicknesses .020" and less. (Class B flame spread rating on models .024" thick.)
- Excellent **tensile strength** and **flexibility**,
- Has **no** added **formaldehyde**, and
- 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

FEATURES	PGB	PGB Black	PB42	PB69VNR Veneer applications	PB69	PB67VNR Veneer applications	PB90	PB90HP
<b>Color</b>	Light Brown	Black	Brown	Brown	Brown	<b>IVORY</b>	Brown	Brown
<b>Nominal Thickness (inches)</b>	0.011	0.011	0.011	0.020	0.020	0.015	0.024	0.024
<b>Tensile Strength MD</b> (Machine Direction lbs./lineal inch)	133	118	149	232	257	183	362	363
<b>Tensile Strength CD</b> (Cross Direction lbs./lineal inch)	52	62	68	113	133	113	184	197
<b>Hygroexpansivity Machine Direction</b> (% change in size at 50-75% relative humidity)	0.118%	0.048%	0.121%	0.101%	0.094%	0.094%	0.325%	0.275%
<b>Hygroexpansivity Cross Direction</b> (% change in size at 50-75% relative humidity)	0.487%	0.039%	0.430%	0.290%	0.246%	0.260%	0.295%	0.411%
<b>Water Absorption</b> % weight gained after 2-hour soak	59%	58%	35%	32%	27%	29%	26%	22%
<b>Weight (lbs/sq. ft.)</b>	0.0480	0.0485	0.0500	0.0830	0.0900	0.0810	0.1200	0.1220
<b>Density (lbs/cu. ft.)</b>	53.1	51.5	57.8	51.9	59.4	61.8	56.7	62.2
<b>Volatile Content (%)</b>	0	0	0	0	0	0	0	0

### Product Sizes

**PolyBak** is available in standard sizes.

#### Sheets

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

#### Rolls

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

\***PB69VNR** (veneer strength) is only available in 25", 37" and 49" widths.

\***PGB Black** is not available in a 37" width.

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

### Limited Warranty

Richwood Industries, Inc. exercises no control over the way in which PolyBak products are stored, handled or used after shipment from our factory. Therefore, no warranty, expressed or implied, is made as to the effects of its use. The only warranty obligation is to replace or accept return of material which the manufacturer determines to be defective. No warranty is made of any kind, expressed or implied, including, without any limitation, any implied warranty of merchantability. No person is authorized to make any product representation or warranty on behalf of PolyBak, and any such statement shall not be binding.

### 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.