

# Expanded PVC

## Close-Celled Expanded (“Foamed”) Polyvinyl Chloride

### Description and Overview

Expanded PVC is a lightweight alternative to traditional PVC, containing a closed-cellular inner core produced by air injection during manufacturing.

This cost-effective thermoplastic is an ideal material for signage, exhibits, point-of-purchase displays, screen printing, photo mounting and many other applications. It features a smooth, matte-finished surface that works well for industrial and commercial signage applications. Expanded PVC readily accepts most forms of graphic overlay.

### Applications and Uses

Expanded PVC is easy to cut and shape, which makes it a popular material for the production of three-dimensional exhibits, displays and stage sets.

Expanded PVC is a great sign material for indoor and outdoor use. Like other thermoplastics, it can be cut, drilled and line bent.

Expanded PVC comes available in a wide variety of colors, is easy to print and paint on, accepts many inks and can be solvent bonded. Expanded PVC is highly resistant to chemicals and moisture, and withstands the effects of rain, wind and sunlight.

- Outdoor and indoor signage
- Store and point-of-purchase displays
- Road signs and yard signs
- Exhibits
- Kiosks
- Screen printing
- Photo mounting



Full Sheet: 48"x96" (Various thicknesses)

### Properties and Specifications

| Property   | Expanded PVC    |
|--|-----------------|
| Density (lbs/in. <sup>3</sup>   lbs/ft. <sup>3</sup> ) | 0.021   36.2    |
| Water Absorption @ 24 Hours                            | 0.15% - 0.30%   |
| Tensile Strength (psi)                                 | 2000            |
| Fire Rating, UL94                                      | V-0             |
| Flexural Yield Strength (psi)                          | 3750            |
| Flexural Modulus (psi)                                 | 165,000         |
| Izod Notched Impact (ft-lb/in.)                        | 0.69            |
| Heat Deflection Temperature                            | 181° F @ 264psi |
| Vicat Softening Point                                  | 168° F          |
| Hardness, Shore D                                      | 55              |
| Affixable Properties                                   | Chem / Mech     |

Properties are typical.  
 Chem is an abbreviation for chemically affixed with glues, chemicals or adhesives.  
 Mech is an abbreviation for mechanically affixed bonding.  
 Field testing is recommended for any application.

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