



## PennFlex™ PVC Patches – Fact Sheet

### What is PVC?

Poly(vinyl chloride) commonly abbreviated PVC. PVC comes in two basic forms: rigid (sometimes abbreviated as RPVC) and flexible. The rigid form of PVC is used in construction for pipe and in profile applications such as doors and windows. It can be made softer and more flexible by the addition of plasticizers, the most widely used being phthalates. In this form, it is also used in plumbing, electrical cable insulation, imitation leather, signage, inflatable products, and many applications where it replaces rubber.

PVC is a thermoplastic made of 57% chlorine (derived from industrial grade salt) and 43% carbon (derived predominantly from oil / gas via ethylene).

### Application

Sew on, Velcro or Pressure Sensitive (sticky) backing (removable).

### Attributes

- Can withstand harsh conditions (i.e. waterproof, hot or cold temperatures, etc.)
- Soft plastic that can be molded into any shape and died to any color.
- Intricate designs and small lettering displayed with great detail and clarity.
- Home laundry only.
- Never fades, frays, cracks or peels.
- Patches are very easy to clean.
- Velcro hook and loop can be applied.
- PMS color matching

### Uses

- Hats
- Jackets
- Backpacks
- Camping / Outdoor Equipment
- Outerwear
- Bag / Luggage Tags
- Zipper Pulls
- Police / Fire Uniforms
- Sports / Outdoor Organizations



## FAQ

**- What kind of artwork is needed?**

Providing artwork as a vector file is preferred.

**-How long does it take view a sample?**

Since PVC patches need a mold before they are created, samples take 5-7 days to be completed.

**- What is pricing and turn time?**

Pricing is dependent on the amount of colors used and the size of the order. Turn time is 7-10 days after the sample is approved. Larger orders require 15 days after sample approval.

**-Are rush orders available?**

Rush orders are dependent upon the size, design and the quantity ordered.

**- Are you able to industrial wash?**

PVC emblem can only be home laundered in order to keep color and shape.

**- Will the heat press affect the emblem when pressing it onto the garment?**

PVC cannot be heat sealed.

**- Are there any color limitations? Any restrictions?**

The maximum amount of colors for a PVC patch is 10. The text within a design should not be less than 1mm (0.04") in height. Smaller text may need to be altered slightly.

**- How cost effective are PVC patches?**

In order for PVC patches to be cost effective, customers should order 200 or more. Then, the quote is determined based on size, cut and complexity of the design.

**- How much do PVC patches cost?**

For PVC patches, since every design is different, every quote may be different. The quote depends on size, quantity and number of colors.

**- Is there a mold cost included?**

There is a mold cost of \$120 for up to 10 square inches. If you need a larger patch, the mold cost will need to be adjusted.

**-What is the smallest size a PVC patch can be?**

PVC patches can be as small as 0.4 inches by 0.4 inches.

**-What is the largest size a PVC patch can be?**

PVC patches can be as large as 15.75 inches by 15.75 inches.



**-Are there any limitations in regards to shape?**

Since PVC emblems are custom made, almost any shape can be produced.

**- What's the minimum order?**

The min. order is 200 emblems.

**- Are you able to heat seal the PVC patch or does it have to be sewn on?**

We do not suggest heat sealing the patch, since we have been unable to do testing. Sew on, Velcro or Pressure Sensitive (sticky) backing are the preferred methods of application. However, when sewing on, the turn cannot be too tight or sharp.

**- What's the best way to sew on PVC patches?**

Very comparable to how embroidered patches are sewn on, we suggest using a thinner needle with a strong thread.

**- What is pressure sensitive backing?**

Pressure Sensitive backing is a sticky backing, generally used for temporary applications.