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**SAFETY & SECURITY**  
**PENNFLEX™**

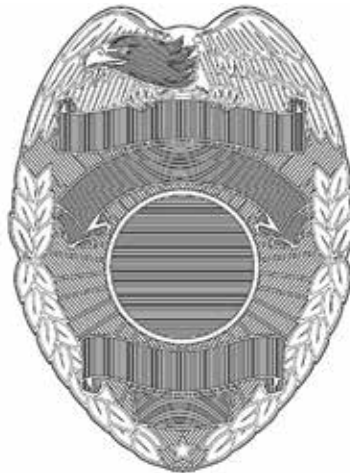
## UPGRADE YOUR BRAND!

Introducing the newest innovation to our product line; PennFlex™ Patches. These cutting-edge, flexible, layered Thermoplastic patches give a premium and luxurious look to brand logos and artwork, upgrading the look of your garments, uniforms and accessories. PennFlex™ Patches are suitable for endless embellishment opportunities, such as garments for the fashion industry, sports apparel, safety and security uniforms, school uniforms, caps, bags and much more.

**STEP 1. VECTOR ART**



**STEP 2. ELECTRONIC SIMULATION**



**STEP 3. FINISHED PENNFLEX™ BADGE**



## FEATURES & BENEFITS

- Enhanced alternative for direct embroidery
- Low minimums: only 50 pieces
- Lightweight, flexible and comfortable
- PMS color matching by CMYK printing
- Unique texture options with metallic effects
- PVC free
- Backing: Heat Seal, Pressure Sensitive, Sew on and Velcro
- Customization: Department, Ranks, Inner seals, Badge numbers



Each mold costs \$185.00 and includes 3 samples and an electronic simulation of your emblem.

\* It is recommended that you test the heat seal parameters before applying to products.  
Penn Emblem is not responsible for any damage incurred.

## PRODUCT SPECIFICATIONS

### DESCRIPTION

Create high resolution, fully customizable logos, badges and emblems with a variety of unique finishes such as metallic or matte. With many textures to choose from, Pennflex™ Emblems are the perfect way to upgrade your brand's embellishment

### EMBLEM DIMENSIONS

- Minimum emblem size is 0.5" x 0.5"
- Maximum emblem size is 3.6" x 3.6"

If a larger size is required, please call Customer Support 800-793-7366

### SET UP FEE

- Each design mold cost is \$185
- Screenshots, vector art, 1 simulation and 3 samples are included in the set up fee
- Standard-sizing, no larger than 3.6", Inquire for pricing for more complex or larger sizes.

### MINIMUM QUANTITY

The minimum order quantity is 50 pieces

### ARTWORK/TURN AROUND

Vector Art Preferred

New Order Development: 3-6 Weeks

Repeat Orders: 2 Weeks

### FLOATING ELEMENTS SIZING

0.40" is the minimum size of floating elements

0.30" is the minimum separation

### EMBLEM COLORS

Colors are unlimited, PMS color matching

### BACKING TYPES

- Heat Seal

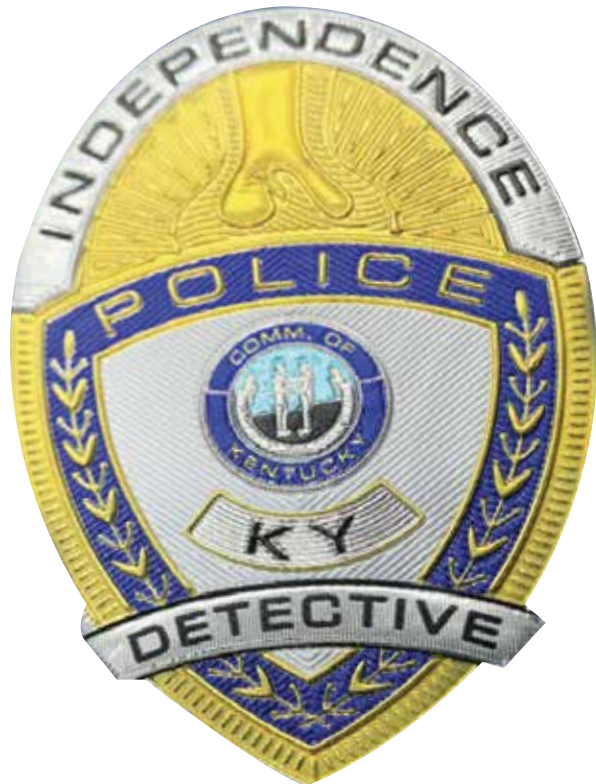
#### Non-separated elements only:

- Velcro®
- Sew-on
- Pressure Sensitive

### WASH CARE

- Home Laundry Only, No Dry Cleaning
- Dry on Low Temperature
- Do not iron over Flex directly
- Pressure Sensitive Backing is not suitable for laundering

Image:	PennFlex®	Direct Embroidery
Realistic	Yes	No
3-Dimensional	Yes	Limited
Feel:	PennFlex®	Direct Embroidery
Comfortable	Yes	Maybe
Flexible	Yes	Yes
Lightweight	Yes	Limited
Functions:	PennFlex®	Direct Embroidery
Permanent	Yes	Yes
Fast Application	Yes	No



SAMPLE PENNFLEX™ WITH INTRICATE DETAIL

# APPLICATION SPECIFICATIONS

## APPLICATION WITH TOP HEAT SEAL MACHINE

Remove only the white sheet that separates logos and prevents them from sticking together.

Do not remove the clear plastic carrier sheet. When heat sealing, cover with a lightweight poly fabric or teflon.

After heat sealing, peel back the clear carrier sheet within 5-10 seconds.

Do not wash for 24 hours.  
Home laundry only.

BACKING TYPE	APPLICATION	HEAT SEAL SETTINGS		
	HEAT APPLY	TOP OR BOTTOM HEAT	PRESSURE	CYCLE TIME
Low-Melt Adhesive	yes	305F (125C)	30-40 PSI	10-12 seconds
Velcro	no	n/a	n/a	n/a
Pressure Sensitive	no	n/a	n/a	n/a

These recommended settings are based on air operated heat seal machines with top and bottom heated platens. For manual presses with no air, use medium to light pressure.

## PENNFLEX APPLICATION DIRECTIONS FOR TOP HEAT PRESS

- Remove only the white sheet separating the flex logos which prevents the logos from sticking together.
- Do not remove the clear plastic carrier sheet.
- Temperature 310 degrees Fahrenheit.
- Time: 10-12 seconds
- Pressure: 30-40 PSI for air operated presses. For Manual presses with no air: Medium to light pressure.
- Place logo in position and cover with teflon.
- Activate the press.
- Peel back the carrier when warm to cool. 5-10 seconds.
- Do not wash for 24 hours. Home laundry only.

## PENNFLEX APPLICATION DIRECTIONS FOR BOTTOM HEAT PRESS

- Remove only the white sheet separating the flex logos which prevents the logos from sticking together.
- Do not remove the clear plastic carrier sheet.
- Temperature 305 degrees Fahrenheit.
- Time: 9-10 seconds
- Pressure: 30-40 PSI for air operated presses. For Manual presses with no air: Medium to light pressure.
- Place logo in position and cover with teflon.
- Activate the press.
- Peel back the carrier when warm to cool. 5-10 seconds.
- Do not wash for 24 hours. Home laundry only.

## SUITABLE TO APPLY TO FOLLOWING FABRICS:

- 100% Polyester
- 100% Cotton
- Cotton/Polyester Blends
- Dri-Fit Performance Garments
- Fleece

## TESTING REQUIRED:

- If applying to nylons or water repellent, treated garments
- If applying to bags, luggage, straps, etc

\* It is recommended that you test the heat seal parameters before applying to products. Penn Emblem is not responsible for any damage incurred.

This product has a 1 year shelf life in a room-temperature controlled environment (before applying).

