

# RAINBOW PRINTING

Rainbow Printing manufactures a wide range of extended life plastic cards for identification and badging. Highest quality assures tough cards with a superior surface.

Whether economy, lead time or durability is your most important consideration we can provide the card that is perfect for your application.



## Card Property Description

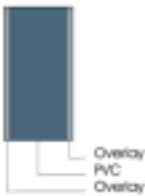
## Application Information



PVC

**All PVC, non-laminated, graphics quality**  
 Heat distortion temperature approximately 135° F  
 Short flex cycle life, about 3,000  
 Available in various colors  
 Can use recycle content  
 Ductile for embossing  
 Does not work as well with D2T2 printers as overlaminated cards  
 Expected card life 18 months under normal conditions

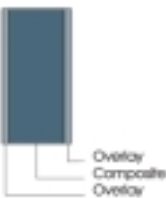
Very inexpensive. Cheap for long and short runs  
 Surface magnetic stripe only  
 Gang runs OK  
 Quickest turnaround time  
 Ink is exposed to abrasion  
 Limited line screen resolution for screen print  
 Accepts screen and surface offset printing  
 Can't image over ink covered areas  
 Best value for light useage over short term



Overlay  
PVC  
Overlay

**All PVC, laminated, graphics quality**  
 Heat distortion temperature approximately 135° F  
 Short flex cycle life, about 3,500  
 Clear, white, colored, metallic stock from .012 to .030"  
 Printing can be sub-surface, surface offset or screen printed  
 Can use recycle content  
 Expected card life is 24 months under normal conditions

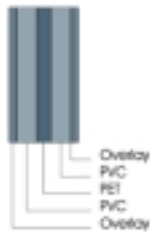
Less expensive than composite cards  
 Flush or surface magnetic stripe  
 Gang run jobs OK  
 Recommended for all D2T2 printers without hot rollers  
 Longer lead times when printing is overlaminated  
 Can image over sub-surface printing  
 Recommended for high quality printing with moderate useage over intermediate term



Overlay  
Composite  
Overlay

**Permalife I.** Composite of special PVC polymers  
 Heat distortion temperature approximately 140° F  
 Excellent flex cycle life, over 50,000  
 White only  
 Expected card life of 48 months under normal conditions  
 Patented blend of thermoplastic polymers which exhibit outstanding flexural durability

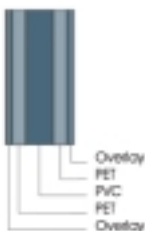
Best value for performance and price  
 Flush or surface magnetic stripe  
 Not recommended for hot roller printers  
 Excellent clarity and image receptivity  
 Available in very short run quantities  
 Recommended where durability and superior quality are most important



Overlay  
PVC  
PET  
PVC  
Overlay

**Combination** 80% PVC & 20% PET  
 Heat distortion temperature approximately 160° F  
 Flex cycle life approximately 15-20,000  
 White only  
 Surface or subsurface printing

More expensive than all PVC or Permalife I  
 Flush or surface magnetic stripe  
 Not recommended for hot roller printers  
 Possible registration problems from split core  
 Excellent image reception from D2T2 printers



Overlay  
PET  
PVC  
PET  
Overlay

**Permalife II.** Composite of 60% PVC & 40% PET  
 Heat distortion temperature approximately 180° F  
 Flex cycle life greater than 50,000  
 White only  
 Expected card life of 60 months under normal conditions

Most expensive  
 Flush or surface magnetic stripe  
 Use in most demanding applications  
 Excellent D2T2 printer image reception  
 Not suitable for short run pre-printed jobs  
 Recommended for use in all popular printers but card may have slight bow from hot rollers without card straightener

## OPTIONS AND FEATURES

**Printing.** Cards may be ordered blank, printed on the surface, or subsurface printed below the overlamine film. Signature panels and hot foil stamping may be added. Blank cards are dye-sublimation printable edge-to-edge.

**Barcodes and variable data.** Thermal transfer barcodes and sequential numbering can be added to printed or blank cards. Red or black mask is available over the barcode area. For added durability a clear coat of UV varnish can be applied over the barcode or mask to resist abrasion.

**Holes, slots, notches.** Many combinations and sizes can be punched to accommodate bead chains, clips, straps or pins. We stock most of these accessory items.

**Magnetic stripe.** Standard 1/2" HiCo and LoCo stripes are flush or surface, 1/8" stripe is surface only.

**Custom sizes** available including CR-60 (IBM style) and CR-50 luggage tag.

All cards can be **shrink wrapped** in packages of 100 or in polybags at additional cost.

Our colorful 32 page catalog is free and contains other plastic items your customers probably buy.

### Card Selector Chart

Attributes/Printer Models	PVC Solid and Film	Permalife I	** 80% PVC 20% PET	Permalife II 60% PVC 40% PET
	Laminated		Moderate	Premium
Avg Flex Cycles, Primary Direction	3,000	50,000	15,000	50,000+
Approx Distortion Temperature	135 F	140 F	160 F	180 F
Normal Expected Life	24 Mos	48 Mos	48 Mos	60 Mos
Cost Range	Lowest	Best Value	Moderate	Premium
Atlantek Model 85	1	1	1	1
DataCard ImageCard II, III, IV	1	1	1	1
ImageCard Express	1	1	1	1
Select & Ultima Series	1	1	1	1
Magna Series	1	1	1	1
ImageCard HiFX	1	1	1	1
Digicard Model IC2000	1	1	1	1
Prestige	1	1	1	1
Eltron P300, P400, P600	1	1	1	1
P500	1*	1*	1*	1
Fargo Uno!, Quatro!	1	1	1	1
4225, 4250, Persona	1	1	1	1
Pro ID, Cheetah	1	1	1	1
Cheetah II, Pro-L ID	2	2	2	1
HDP-710, HDP-720	1	1	1	1
Magicard Turbo, Ultra series	1	1	1	1
Nisca Model 5100, 5200	1*	1*	1*	1
Polaroid Models 75, 100	1	1	1	1

1 = Recommended, 2 = Not recommended

\* Use card straightener option with hot roller overlaminate \*\* Special Order Only