

# Pad Printing Ink

## Type PV

### Ink Data Sheet

**NOTE:** Read Material Safety Data Sheet (MSDS) Prior To Use

**Ink Type PV** is a two-component product supplied in paste form. Hardener must be added for production use. Ink and hardener should be thoroughly mixed prior to adding thinner. During printing, the ink viscosity may be adjusted with thinner (if needed). A retarder may be added to slow drying rate during printing (normally for high room temperatures or multi-color use). Under most conditions, ink pot life will not exceed eight hours. Recommended room temperature: 70-78 degrees F. Recommended room humidity 30-50 %

**ADDITIVES:** (See Additives Chart for more listings)

**Hardeners:** (mixing ratio, ink to additive)

- BH HARDENER ( Four parts ink to one part hardener; Ratio by weight) For most applications.
- BH/N HARDENER ( 4 : 1 Ratio by weight) More ultraviolet light and abrasion resistant but requires additional drying time.

**Thinners:** (after adding Hardener)

THINNER B (5 to 20 % by weight) Faster

VD THINNER (5 To 20 % by weight) Medium

THINNER BGA (5 To 20 % by weight) Slower

**Retarder:** (after adding Hardener and Thinner)

TPD RETARDER (1 To 3 % by weight)

#### **DRYING & CURING:**

Ink TYPE PV dries to the touch within 30 seconds at room temperature. Drying time may be reduced with forced hot air at 200 – 400 degrees F. Normally, full cure is achieved after five to six days depending on curing temperature time; and humidity. Heat curing is necessary for better adhesion and performance results.

#### **AVAILABLE COLORS:**

Ink Type PV is available in:

- 23 Standard Opaque Colors • Standard Metallic Colors • Process colors • Custom Colors Available Upon Request
- C-Mix 2000 Color Matching System

#### **USE & STORAGE INFORMATION**

(For more detailed information see Material Safety Data Sheet (MSDS) for Type PV Ink.

**Ink Type PL:** Stir ink thoroughly before removing from container. Reseal lid tightly after using.

Warranty Period: Two years from ship date (in original sealed container)

**HARDENER:** Reseal container immediately after using. Hardener is humidity sensitive. As moisture is absorbed, the viscosity first increases, then starts forming crystals. Do not use when crystals first appear.

Warranty Period: one year from ship date (in original sealed container)

**THINNER:** Reseal lid tightly after using. Warranty Period: two years from ship date (in original sealed container)

**RETARDER:** Reseal lid tightly after using. Warranty Period: two years from ship date (in original sealed container)

**STORAGE OF ALL PRODUCTS:** At room temperature 60 to 80 Degrees F with low humidity.

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#### Recommended Printing Substrates:

# : Indicates substrate may require pretreatment.

#### THERMOPLASTICS

Acrylonitrile-Butadiene-Styrene  
Polyphenylene Ether  
Polyoxymethylene -1 Ø  
Polybutylene Terephthalate  
Polymethyl Methacrylate  
Cellulose Acetate  
Cellulose Acetate Butyrate  
Polyphenylene Oxide #  
Polyamides  
Polycarbonate  
Polyester  
Polyetherimide  
Polyethylene #  
Polyethylene Terephthalate  
Polyimide  
Polyimide Filaments  
Polyphenylene Sulfide  
Polyphenylsulfone  
Polypropylene #  
Polysulfone  
Polyvinyl Chloride Rigid

#### FLEXIBLE PLASTICS

Urethane, Flexible #

#### THERMOSET

Epoxy Resin  
Phenol Formaldehyde Resin  
Polyester Epoxy Resin  
Polyurethane, Rigid #  
Urea Formaldehyde Resin

#### METALS

Aluminum  
Anodized Metal  
Brass  
Chrome Plate  
Copper  
Bronze  
Iron  
Steel  
Tin  
Titanium  
Miscellaneous Metals

#### MISCELLANEOUS SUBSTRATES

Ceramic  
Glass  
Wood

#### COATINGS & PAINTS

PowderCoat  
Surlyn  
Urethane Paint / Coating  
Miscellaneous Coatings & Paints

#### OTHERS

Acrylic Sheets & Molding Powders  
C-Resin #  
Formica  
Hostra  
Polycarbonate / ABS  
Thermoplastic Polyester Resin  
Viton

**\*\*Since operating conditions and applications are beyond our control, Trans Tech can not guarantee results, nor assume liability for any problem that may arise.**

**The user should test the suitability of the product for its intended application. No warranty for results obtained, expressed or implied, can be assumed by Trans Tech.**

**Trusted Partner for Your Product Decorating Needs**

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