

TECHNICAL BULLETIN

i-Lam

Solvent Based Flexographic Laminating Inks

i-LAM is a high performance flexographic lamination ink designed for demanding applications without forfeiting colour strength or printability. In addition to performance, *i-LAM* provides value through its versatility (suitable for a variety of structures), easy cleanup, nitrocellulose compatibility and use of non-aggressive solvents.

Characteristics

- Superior colour strength (process, line, and lightfast)
- Excellent printability
- Low solvent retention
- Non-aggressive solvents
- Suitable for secondary heat applications (zipper pouches)

Substrates

- Polyethylene
- Polypropylene (treated, saran and acrylic coated)
- Polyesters (chemical and corona treated)
- Nylon

Typical Applications

- *i-LAM* is formulated for demanding lamination structures but is suitable for a variety of applications. Due to its superior printing characteristics, *i-LAM* is ideal for stand-up pouches and other rigid lamination structures.

Base Colours

- | | |
|------------------------------------|-----------|
| • <i>i-LAM</i> White | LSDW06080 |
| • <i>i-LAM</i> Extender | LSDE04563 |
| • <i>i-LAM</i> Yellow | LSDY06133 |
| • <i>i-LAM</i> LF Yellow | LSDY06579 |
| • <i>i-LAM</i> Orange | LSDY06134 |
| • <i>i-LAM</i> Warm Red | LSDR06135 |
| • <i>i-LAM</i> LF Y/S Red | LSDR06143 |
| • <i>i-LAM</i> Rubine | LSDR06136 |
| • <i>i-LAM</i> LF B/S Red | LSDR06144 |
| • <i>i-LAM</i> LF Pink (Rhodamine) | LSDR06137 |
| • <i>i-LAM</i> LF Violet | LSDP06138 |
| • <i>i-LAM</i> Blue | LSDB06139 |
| • <i>i-LAM</i> Green | LSDG06140 |
| • <i>i-LAM</i> Black | LSDK06141 |
| • <i>i-LAM</i> Silver | LSDM04961 |

Process Colours

- | | |
|---------------------------------|-----------|
| • <i>i-LAM</i> Process Extender | LSDE04895 |
|---------------------------------|-----------|

- *i-LAM* Process Yellow LSDY06062
- *i-LAM* LF Process Yellow LSDY06587
- *i-LAM* Process Magenta LSDR06063
- *i-LAM* LF Process Magenta LSDR06429
- *i-LAM* Process Cyan LSDB06064
- *i-LAM* Process Black LSDK06065

Technical Data

- Viscosity** Shipping: 35 – 40 seconds Signature Zahn #2
Running: 22 – 25 seconds Signature Zahn #2
- Anilox** Doctor blade recommended
Process: FIRST densities are achieved with 500 lpi 2.88 bcm
Colours: Strong solid colours may be printed with volumes of 4.5 bcm
- Plates** Synthetic rubber, natural rubber, and photopolymer
- Reducer** Regular : 45/45/10 2A Alcohol/n-propanol/n-propyl acetate
Slow : 90/10 n-propanol/n-propyl acetate.
Fast Dry : 60/30/10 2A alcohol/n-propanol/n-propyl acetate
Contact Pemla Technical personnel for specific recommendations
- Clean up** Same as Reducer
- Shelf Life/
Storage** Approximately 1 year, depending on storage conditions and use. Store at 15-30°C. Do not allow to freeze. Mix well before use.

CAUTION * CAUTION * CAUTION * CAUTION * CAUTION * CAUTION * CAUTION * CAUTION

1. Due to the wide range of substrates and treatment levels on the market, it is recommended that stock be pretested prior to printing to ensure proper ink adhesion and resistance properties.

2. Esters such as ethyl acetate or n-propyl acetate may retard drying rather than accelerate it, due to compatibility with the resins used in this ink system.

3. Use of glycol ethers to slow down drying speed of ink must be done cautiously and with specific product recommendations from ink supplier.

4. Adhesion reaches its maximum approximately 24 - 48 hours after printing. Any testing on printed film must take this into account.

Pemla cannot anticipate all conditions under which this information and our products may be used. All printing applications should be tested before using on a press. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products, either alone or in combination with other products. Please contact Pemla technical personnel for more information.