

TECHNICAL BULLETIN

***i*-SHEEN HR**

ALCOHOL BASED FLEXOGRAPHIC INKS FOR FILM

***i*-SHEEN HR** is an alcohol based printing ink designed for surface printing of film substrates by wide web flexography. ***i*-SHEEN HR** exhibits excellent printability and good resistance properties as well as intermediate heat resistance for general applications.

Characteristics

- Offers good adhesion on many treated substrates
- Excellent gloss, rub and scuff properties
- Heat sealable up to 150°C, 40 psi, ½ sec. dwell
- Clean and sharp printing
- Excellent non block and slip properties

Substrates

- Treated polyethylene, polypropylene
- Cellophane
- Paper

Typical Applications

- ***i*-SHEEN HR** is excellent for shopping and industrial bags for indoor use. Please refer to our ***i*-FAST** product line for outdoor applications.
- ***i*-SHEEN HR** is designed for the printing of solids

Revised : January 17, 2011

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Base Colours

- *i-SHEEN HR* Extender FSDE06684
- *I-SHEEN HR* Yellow FSDY06686
- *I-SHEEN HR* Orange FSDY06687
- *I-SHEEN HR* Warm Red FSDR06688
- *I-SHEEN HR* Permanent YS Red FSDR08817
- *I-SHEEN HR* Rubine FSDR06689
- *I-SHEEN HR* Rhodamine FSDR06690
- *I-SHEEN HR* Permanent Pink FSDR08818
- *I-SHEEN HR* Violet FSDP06691
- *I-SHEEN HR* Permanent Violet FSDP08693
- *I-SHEEN HR* Blue FSDB06692
- *I-SHEEN HR* Green FSDG06693
- *I-SHEEN HR* Black FSDK06694
- *I-SHEEN HR* White FSDW06685
- *I-SHEEN HR* Metallic Silver FSDM08739

Overprint Varnish

- *I-SHEEN HR* Special Resistant Overprint Varnish FSPE01017

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Technical Data

Viscosity	Shipping Viscosity: 40 -60 seconds Signature Zahn #2 Running Viscosity: 22 – 25 seconds Signature Zahn #2
Anilox	Line Colours: Good colour strength may achieved with volumes of 4.9 bcm or more
Plates	Buna N (synthetic rubber), natural rubber & photopolymer
Reducer	Fast: 60/30/10 2A alcohol/n-propanol/n-propyl acetate Regular : 45/45/10 2A alcohol/n-propanol/n-propyl acetate Slow : 60/30/10 n-propanol/2A alcohol/n-propyl acetate
Clean up	Same as reducer (see above)
Shelf Life/ Storage	Approximately one(1) year depending on storage conditions and use. Store between 15°C to 30°C. Do not allow to freeze. Agitate well before use.

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

1. All base colours are non-lightfast. Lightfast matches are available upon request.
2. Resistance properties reach their maximum 48 hours after printing. Any testing on printed film should take this into account.
3. Cannot be laminated.
4. Due to the availability of a wide range of substrates, it is recommend that the substrate be pre-tested and verified at the beginning of the press run.
5. The substrate must be treated to at least 38 dyne for the ink to have acceptable adhesion and rub resistance.
6. Over reduction of this ink system may result in the loss of certain resistance properties. To maintain optimal resistance properties, do not reduce the ink below the minimum running viscosity noted above.

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.

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