

TECHNICAL BULLETIN

i-SHEEN

ALCOHOL BASED FLEXOGRAPHIC INKS FOR FILM

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

Characteristics

- Offers good adhesion on many treated substrates
- Excellent gloss, rub and scuff properties
- Excellent wet rub and crinkle resistance
- Good freeze/thaw stability
- Heat sealable up to 100°C, 40 psi, ½ sec. dwell
- Clean and sharp printing
- Excellent non block and slip properties
- *i-SHEEN* bases are formulated for maximum pigment loading to provide the strongest possible colours for low volume aniloxes; *i-SHEEN R* is available for printers requiring a more economic but lower strength system

Substrates

- Treated polyethylene, polypropylene
- Cellophane
- Paper

Typical Applications

- *i-SHEEN* is accepted by the **Food Safety Directorate** of the **Canadian Food Inspection Agency** for indirect food contact applications such as printing bread bags and frozen food packaging.
- *i-SHEEN* is also excellent for shopping and industrial bags for indoor use. Please refer to our *i-FAST* product line for outdoor applications.
- *i-SHEEN* is designed for the printing of solids. *i-SHEEN SL* is available for the applications involving screens, fine type, or combination printing.
- *i-SHEEN* metallic inks may be manufactured by tinting silver with base colours. For true, bright metallics, refer to the **SHEENSTAR** product line.

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Base Colours – *i-SHEEN*

• <i>i-SHEEN</i> Extender	FSDE03729
• <i>i-SHEEN</i> Yellow	FSDY03730
• <i>i-SHEEN</i> Orange	FSDY03731
• <i>i-SHEEN</i> Warm Red	FSDR03732
• <i>i-SHEEN</i> Rubine	FSDR03733
• <i>i-SHEEN</i> Rhodamine	FSDR08287
• <i>i-SHEEN</i> Violet	FSDP03735
• <i>i-SHEEN</i> Blue	FSDB03736
• <i>i-SHEEN</i> Green	FSDG03737
• <i>i-SHEEN</i> Black	FSDK03738
• <i>i-SHEEN</i> White	FSDW00946
• <i>i-SHEEN</i> Silver	FSDM04596

Base Colours – *i-SHEEN SL*

• <i>i-SHEEN SL</i> Extender	FSDE04923
• <i>i-SHEEN SL</i> Yellow	FSDY04924
• <i>i-SHEEN SL</i> Orange	FSDY04925
• <i>i-SHEEN SL</i> Warm Red	FSDR04926
• <i>i-SHEEN SL</i> Rubine	FSDR04927
• <i>i-SHEEN SL</i> Rhodamine	FSDR08396
• <i>i-SHEEN SL</i> Violet	FSDP04929
• <i>i-SHEEN SL</i> Blue	FSDB04930
• <i>i-SHEEN SL</i> Green	FSDG04931
• <i>i-SHEEN SL</i> Black	FSDK04932

Base Colours – *i-SHEEN R*

• <i>i-SHEEN R</i> Yellow	FSDY06806
• <i>i-SHEEN R</i> Orange	FSDY06807
• <i>i-SHEEN R</i> Warm Red	FSDR06808
• <i>i-SHEEN RR</i> Rubine	FSDR06809
• <i>i-SHEEN R</i> Rhodamine	FSDR06810
• <i>i-SHEEN R</i> Violet	FSDP06811
• <i>i-SHEEN R</i> Blue	FSDB06812
• <i>i-SHEEN R</i> Green	FSDG06813
• <i>i-SHEEN R</i> Black	FSDK06814

Process Colours

• <i>i-Sheen</i> Process Extender	FSDE04360
• <i>i-Sheen</i> Process Yellow (800 lpi)	FSDY04356
• <i>i-Sheen</i> Process Magenta (800 lpi)	FSDR04357
• <i>i-Sheen</i> Process Cyan (800 lpi)	FSDB04358
• <i>i-Sheen</i> Process Black (800 lpi)	FSDK04359

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Technical Data

Viscosity	Shipping Viscosity: 50 -65 seconds Zahn #2 Running Viscosity: 22 – 25 seconds Zahn #2
Anilox Plates	Line Colours: Good colour strength may achieved with volumes of 4.9 bcm or more 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
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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