

Environmental Inks and Coatings®

"The Natural Choice" since 1979

TECHNICAL BULLETIN

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POLY SCREEN PLUS SURFACE INKS™

Environmental Inks & Coatings is pleased to offer **Poly Screen Plus** Inks. EIC has long been an industry leader in the development of clean printing, high definition inks for the film printing industry with our **Poly Screen Inks Systems**. These inks are designed for use on extensible films, i.e. polypropylene and polyethylene. The **Poly Screen Plus** ink line requires less maintenance, has a lower odor, and provides better stability. The **Poly Screen Plus Process** inks print cleanly with 900-1000 lpi aniloxes. **Poly Screen Plus** inks are available in both surface and lamination versions. The lower pH levels also minimize the potential negative interaction with some adhesives and UV overprints. A proprietary **Poly Screen Plus** database is available to match most Pantone® colors with the Easy Ink Controller blending software. **Poly Screen Plus Surface** inks are the best choice for converters who desire one ink to print well on both film and paper substrates. The **Poly Screen Plus** ink systems should be carefully evaluated for adhesion and end use properties on all substrates before printing. Other EIC film systems are available.

Features

Benefits

pH stable	Higher printing throughput Consistent print quality
Strong, vivid colors	Great ink mileage and economy
Versatile	Good for both films and paper
Easy Ink Controller Formulas	Lower ink inventory with less downtime and waste
Prints clean with excellent resolubility	Less downtime
Available with Anilox Aware	Tremendous savings in make-ready time and lower make-ready waste

Environmental Inks and Coatings offers a complete line of water-based and UV curable inks and coatings. For a complete ink solution for your specific packaging and printing requirements, please contact your nearest Environmental Inks and Coatings Branch Office.

POLY SCREEN PLUS SURFACE INKS™

The Poly Screen Plus inks are designed to provide strong, sharp, clean printing on a variety of treated film substrates for flexible packaging. These inks have exceptional color strength for use with low volume, high line screen aniloxes.

Poly Screen Plus Surface Formula Numbers - Blending Colors

Fade Resistant (FR)

PSPX3100	Extender Varnish	PSPX3300	Yellow FR	PSPX3570	Y/S Red FR
PSPX3200	Process Blue FR	PSPX3320	DNA Orange FR	PSPX3550	Print Warm Red
PSPX3280	Reflex Blue FR	PSPX3500	Rhodamine FR	PSPX3600	Green FR
PSPX3220	Purple	PSPX3530	B/S Red FR	PSPX3700	Opaque White FR
PSPX3230	Carbazole Violet	PSPX3900	Black FR		

Non-Fade Resistant * (NFR) Colors Available

PSPX3250	Reflex Blue NFR*	PSPX3240	Methyl Violet NFR *	PSPX3520	Lithol Rubine NFR*
PSPX3290	Purple NFR*	PSPX3310	Process Yellow NFR*	PSPX3540	Rhodamine NFR*

Process Colors

EH027556	Process Blue FR	EH033919	Process Yellow NFR *	EH056923	Process Magenta NFR *
EH033914	Process Yellow FR	EH056914	Process Magenta	EH091982	Process Black FR

*Non-Fade Resistant Inks: These inks are not suitable for outdoor applications. The use of non-fade resistant blends can create "on press" color stability problems and therefore are not recommended for an overall mixing system. The non-fade resistant inks listed above should not be in any pastel blend. Please contact the E.I.C technical staff for more information.

APPLICATION RECOMMENDATIONS

Substrates: Paper and Film

Please note: EIC recommends pre-testing all inks & substrates for adhesion and end-use properties.

Recommended anilox volume: 3.0 bcm to 6.0 bcm

Adjust pH with: EC001551 Film pH Adjuster **pH Range:** 8.5-8.8

Extend with: PSPX3100 Extender Varnish **Lower viscosity with:** EC-1551 and/or Water

Viscosity: 15-20 #3 zahn @ 77°F, 25°C

Recommended defoamer: EC001375 Aqua Film Defoamer

Variable Information Imprintability: N/A

Please note: EIC recommends pre-testing all inks & substrates for imprint-ability and end-use properties.

Heat Resistance: 250-275°F (120-135°C), 1 second, 40 psi

Clean Up: Approved EIC Cleaners and Mild Detergent

Water Resistance : Good

Alkali Resistance: Poor

Grease Resistance: Good

Alcohol Resistance: Poor

Detergent Resistance: Poor

Block Resistance: Poor

DISCLAIMER:The information and data contained herein are believed to be accurate and reliable; however, it is user's responsibility to determine the suitability of use. Since EIC cannot know all of the uses to which its product may be put, or the condition of use, it makes no warranties concerning the fitness or suitability of its products for a particular use or purpose. You should thoroughly test any proposed use of our products and independently conclude satisfactory performance in your application. Likewise, if the manner in which our products are used requires government approval or clearance, you must obtain it. EIC warrants only that its products will meet its specifications. There is no warranty of merchantability or fitness for use, nor any other express or implied warranty. The user's exclusive remedy and EIC's sole liability is limited to refund of the purchase price or replacement of any product shown to be otherwise than as warranted. EIC will not be liable for incidental or consequential damages of any kind. Suggestions of uses should not be taken as inducements to infringe any patents.



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