

Series 392

Solvent-based Screen Printing Ink for Plastic Cards

The silk gloss screen printing ink Series 392 has been developed on the basis of hot-laminating binders specifically for the printing of various card

systems. Typical applications are identity cards, smartcards, loyalty cards as well as debit and credit cards.

Application

- › Identity cards
- › Smartcards
- › Loyalty Cards
- › Debit and credit cards

Substrates

Substrate	Rating	Hints
Polycarbonate (PC)	★★★★★	
PVC (with hotmelt overlay)	★★★★★	
ABS / PVC	★★★★	
PET-G	★★★★	
Teslin	★★★	

Legend ★★★★★ Very well suited ★ Detailed pre-tests necessary

Characteristics

Feature	Rating	Hints
Alcohol and gasoline resistance	n/a	
Resistance to adhesives	n/a	
Block resistance	★★	
Flexibility	★★★★★	
Gloss	★★★	Silk gloss
Resistance to hand sweat	n/a	
Light fastness	n/a	
Resistance to marking	★★★	
Pigmentation	n/a	
Sieve openness	★★★	
Resistance to temperatures	★★★★	Suitable for PVC and PC hot laminating
Drying	★★	
Deformability	n/a	
Weather resistance	n/a	

Legend ★★★★★ Very good product properties n/a No information available
 ★ Product properties not available

Product Range

spectraCARD Design Manual

The spectraCARD Design Manual has four categories:

- › Highly transparent color concentrates
- › Opaque chromatic colors
- › Effect systems
- › Security features

Other Colors			Mesh	
Metallic inks for polycarbonate and PVC	Series 392-MSS1	Silver, small	90.48	
	Series 392-MSM1	Silver, medium	77.55	
	Series 392-MSM2	Silver, medium	77.55	
	Series 392-MSL1	Silver, large	77.55	
	Series 392-MSG1	Silver, glitter	54.64	
	Series 392-MGS1	Gold, small	77.55	
	Series 392-MGS2	Gold, small	77.55	
	Series 392-MGM1	Gold, medium	77.55	
	Series 392-MGM2	Gold, medium	77.55	
	Series 392-MGM3	Gold, medium	77.55	
	Series 392-MGM4	Gold, medium	90.48	
	Series 392-MGM5	Gold, medium	90.48	
	Series 392-MGM6	Gold, medium	77.55	
	Series 392-MGM7	Gold, medium	90.48	
	Series 392-MGG1	Gold, glitter	43.80	
	Series 392-MPL1	Pearl, large	77.55	
	Series 392-MPL3	Pearl, large	77.55	
	Series 392-MPG1	Pearl, glitter	43.80	
	More metallics on request			
	Laserable metallic inks for polycarbonate and PVC	Series 392-MSM1/L1	Silver, medium, laserable	77.55
Series 392-MSM1/L2		Silver, medium, laserable	77.55	
Series 392-MGM7/L1		Gold, medium, laserable	90.48	
Series 392-MGM7/L2		Gold, medium, laserable	90.48	
Special products for cards	Series 392-WI-10/1	Signature field ink, polishable, white	77.55	
	Series 392-WI-10/2	Signature field ink, polishable, transparent	77.55	

Others	Series 392-00/PC	High opaque white for polycarbonate	1x 62.64 2x 90.48
	Series 392-00/PVC	High opaque white for PVC	1x 62.64 2x 90.48
	Series 392-00-PVC/MT	High opaque white for PVC, mat	1x 62.64 2x 90.48
	Series 392-05	Thermo varnish / laminating adhesive	90.48
	Series 392-05/POLISH	Polish varnish	120.34
	Series 392-07	Binder	90.48 – 43.80*
	Series 392-07/PRIMER	Offset-Primer	120.34

* depends on pigment size

Auxiliaries

Add thinner to adjust the printing viscosity of Series 392.

Thinner	Series 392-017	Addition ratio	10-20 % by weight
Retarder (if necessary)	Series 300-018	Addition ratio	5-20% by weight

Hint: a complete overview of all available auxiliaries can be found in a separate technical data sheet.

Processing

Mesh

All common mesh can be used.

Stencils

All common, solvent based stencils can be used.

Drying

Drying of Series 392 depends on the layer thickness as well as on the used substrate and auxiliaries.

Usual parameters without addition of retarders are:

Air	Physically drying at 20 °C ambient temperature / 50 % relative humidity. Overprintable after 60 minutes.
Continuous dryer	Depending on dryer capacity, the print is stackable after 60 seconds. The recommended drying temperature lies between 50-60 °C.

Further processing

- › Laminating
- › Punching
- › Cutting
- › Concealing
- › Grooving
- › Molding / embossing
- › Folding

Cleaning

The stencils and squeegees should promptly be cleaned with the products Series 300-URS or Series 300-BRS.

Special Features & Tips

Lamination strength	Increase by adding lamination adhesive Series 392-05.
Offset bottom	Series 392-07/PRIMER: special primer for adhesion improvement of UV offset inks.

Productivity

Depending on color shade and substrate, a productivity of 30-45 m²/kg with the press-ready ink (20% thinning) and use of mesh 77.55 can be expected.

Others

Delivery	1 kg / 5 kg / 25 kg
Certificates / Standards	www.printcolor.ch/certificates ISO/IEC 7810:2019, ISO/IEC 10373
Other	Stir well before use. Information on shelf life can be found on the cover label.

Safety Information

Actual Material Safety Data Sheets according to EC regulation 1907/2006 are available for all products mentioned in this data sheet.

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Important Information

Our technical advice whether spoken, written, or through test trials corresponds to our current knowledge to inform about our products and their use. This is not meant as an assurance for certain properties of the products nor their suitability for each application. You are, therefore, obliged to conduct your own tests with our supplied products to confirm their suitability for the desired process or purpose. The selection and testing of the ink for specific applications is exclusively your responsibility. Should, however, any liability claims arise, such claims shall be limited to the value of the goods delivered by us and utilized by you with respect to any and all damages not caused intentionally or by gross negligence.