

PRODUCT DATA SHEET

SUITABILITY CHART: UV-CURING SCREEN PRINTING INKS / SUBSTRATES

	UVU	UVX2	UVN	UVPO	UVE	MTR	PDO	UVP	UV-650018 80UV	UV-650061	UV/K	UVGS	SVC		
	1	1	1	1	2 5%	1	1	1	1	2 5%	1	2 5%	2 5%	3 5%	Hardener addition
Paper, Cardboard, Carton	●	●	●	●	●										
Plasticized PVC	●	●	●	●	●	●	●	●	●						
PVC Coated Fabrics			●												
Rigid PVC	●	●	●	●	●	●	○	○	○						
Polystyrene (PS)	●			●	●	●		●	●						
ABS, SAN	●			●	●	○		●							
Polycarbonate (PC)	●			●	●	○		●							
PMMA (Acrylic Glass)	○			○	●										
Polyester foil (with adhesion promoter) for membrane switch overlays							●								
PET-G*	●			●	●										
Polyolefin															
Roll-Label															
PE coated		○	●					●	●						
PP coated		○	●					●	●						
Sheets/Boards															
PP corona-treated				●											
Containers/Packaging															
PE flame treated (Corona)								●	●						
PP flame treated (Corona)								●	●						
Duroplastics												●			
Metals												●			
Coated Surfaces**				●								●			
Glass															
Glass Sheets												●	●		
Glass Containers												●	●		

* material may be very sensitive to tension cracks

** various types

● preferred for the application

● suitable

○ may be suitable

1 1-component

2 Alternatively with hardener

3 2-component

This information is no guarantee for the suitability of screen printing inks for certain substrates but is intended to help the user to choose suitable ink types. Pre-tests are always necessary. This information is based on our present experiences (October 2014).

PROPERTIES OF UV INKS

INK TYPE	UVU	UVX2	UVN	NEU UVPO	UVE	MTR	PDO	UVP	UV-650018	80UV	UV-650061	UV/K	UVGS	SVC
Reactivity mJ/cm ² ¹⁾	very high 150	very high 150	high 250	medium 300	high 250	medium 300	high 200	medium 300	high 200	very high 100	very high 150	low from approx. 1000	medium 500	medium 300
Effects on substrate properties* tear resistance impact strength	low	low	medium	medium	high	low	low	high	high	medium	medium	n.a.	n.a.	n.a.
Further processing of prints punching / cutting	good	very good	limited	limited	problematic	good	good	problematic	problematic	limited	limited	limited	n.a.	n.a.
forming	no	no	no	no	no	yes	limited	no	no	no	no	no	n.a.	n.a.
Outdoor resistance	high	high	high	medium	medium	medium	medium	high	high	medium	medium	low	low	low
Chemical and solvent resistance	high	low	medium	medium	high	low	high	high	high	high	high	very high	high ²⁾	high ³⁾

1) measured with Kühnast UV integrator

2) after addition of 5% hardener UVGS/HS

3) after addition of 5% hardener SVC/H

* The above chart is a summary of the most essential properties of our UV ink types.

All former product sheets are no longer valid.
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