

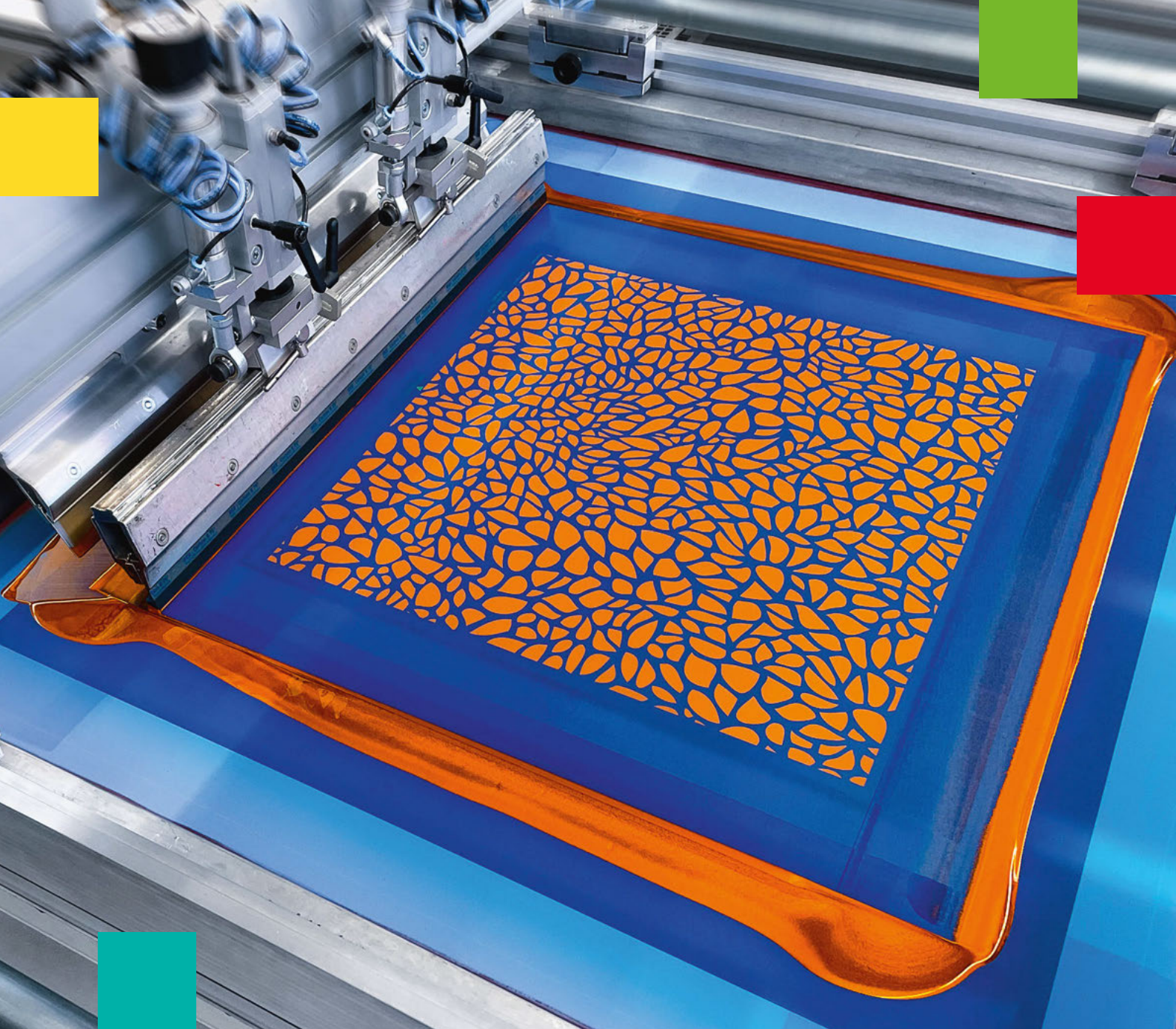


TABLE OF INKS AND SUBSTRATES. SCREEN PRINTING INKS



Marabu

UV INKS

Product Information

Ultra Pack
LEDC

Ultra Glass
LEDGF

Ultra Pack
LEDGL

Ultra Graph
UVAR

Ultra Pack
UVC

Ultra Form
UVFM

Ultra Pack
UVFP

Ultra Glass
UVGL

Ultra Pack
UVK+

Ink System	UV-LED	UV-LED, 2K	UV-LED, 2K	UV	UV	UV	UV	UV, 2K	UV
Drying	very fast	very fast	very fast	fast	very fast	slow	medium fast	fast	very fast
Degree of Gloss	high gloss	high gloss	high gloss	glossy	glossy	glossy	high gloss	glossy	high gloss
Opacity	medium	medium	medium	medium	medium	medium	medium	medium	medium
Outdoor Resistance	short-term	short-term	short-term	medium-term	short-term	long-term	short-term	short-term	short-term
Special Characteristics	UV or LED-curable	UV or LED-curable, dishwasher resistant	UV or LED-curable, dishwasher resistant	flexible	universal application, resistant	universal application, vacuum formable	low migration	dishwasher resistant	resistant to water and steam
Basic Shades	13	13	13	13	13	13	13	13	13
4-Clr Process	-	-	-	4	4	4	-	4	-
Others	10	8	12	5	14	5	4	22	3
Specials	High-Opaque Shades	High-Opaque Shades	Etch Imitations, High-Opaque Shades, Primers	Opaque White and Black	High-Opaque Shades, Opaque White and Black	Opaque White and Black	Opaque White and Black	Etch Imitations, High-Opaque Shades, Primers	Opaque White and Black
Auxiliaries									
Thinner	UVV 1	UVV 1	UVV 1	UVV 6	UVV 1/3	UVV 6	-	UVV 6	UVV 3
Thinner (more flexibility)	-	-	-	-	-	-	-	-	-
Adhesion Modifier (Metal)	-	-	UV-HV 8	-	-	-	-	UV-HV 8	-
Adhesion Modifier (Glass)	-	UV-HV 8	UV-HV 8	-	-	-	-	UV-HV 8	-
Adhesion Modifier (other)	-	-	UV-HV 8	-	-	-	-	UV-HV 8	-
Accelerator (depth cure)	UV-B 1/4	UV-B 4	UV-B 4	UV-B 1	UV-B 1	-	-	UV-B 1	UV-B 1
Accelerator (surface cure)	UV-B 5	UV-B 5	-	UV-B 5	UV-B 5	-	-	-	-
Hardener	H 3	-	-	-	H 3	-	-	-	H 3
Varnish/Clear	LEDC 904	LEDGF 910	LEDGL 904/902	UVAR 904/910	UVC 904/910	UVFM 904/910	UVFP 904	UVGL 904/910	UVK+ 904
Transparent Base	-	-	-	UVAR 409	UVC 409	UVFM 409	-	UVGL 409	-
Thickening Agent	UV-TA 1	STM/UV-TA 1	-	STM	STM/UV-TA 1	-	-	UV-TA 1	STM/UV-TA 1
Levelling Agent	UV-VM	UV-VM	UV-VM	UV-VM	UV-VM	UV-VM	-	UV-VM/VM 1	UV-VM
Other additives	UV-SA 1	-	UV-HS 1	-	UV-SA 1	-	-	UV-HS 1	UV-SA 1
Cleaner	UR 3/4/5	UR 3/4/5	UR 3/4/5	UR 3/4/5	UR 3/4/5	UR 3/4/5	UR4/5	UR 3/4/5	UR 3/4/5
Substrates									
ABS/SAN				✓		✓			
Acrylic Glass (PMMA)						✓			
Anodised Aluminium			✓ HV 🔥					✓ HV 🔥	
Glass, Ceramics		✓ HV 🔥	✓ HV 🔥					✓ HV 🔥	
Metals			✓ HV 🔥					✓ HV 🔥	
Paper, corrugated Cardboard				✓		✓			
PETG, PETA	✓ (PETG)		✓ (PETG) HV	✓ (PETG)	✓ (PETG)	✓ (PETG)			
Polyactide (PLA)									
Polyamide (PA)					✗ H				
Polycarbonate (PC)	✓			✓	✓	✓			
Polyester Foil, coated									
Polyethylene (PE), pre-treated	✓				✓		✓		✓
Polypropylene (PP), pre-treated	✓			✓	✓	✓	✓		✓
Polypropylene (PP), un-treated									
Polystyrene (PS)	✓			✓	✓	✓			
PVC, self-adhesive foil				✓	✓	✓			
PVC, rigid	✓			✓	✓	✓			
PVC, soft									
Textiles, Cotton									
Textiles, Synthetics									
Thermosetting Plastics									
Traffic Sign Foil, retro-reflective									
Varnished Surfaces			✓ HV 🔥					✓ HV 🔥	
Wood									
Typical or additional Application	Container Printing	Packaging, Restaurant, and Flat Glass	Packaging, Restaurant, and Flat Glass	Graphic Screen Printing	Container Printing, Label Printing (flatbed)	Vacuum formed parts, Backlit Signage	Container Printing	Packaging, Restaurant, and Flat Glass	Container Printing, Cartridges

✓ = suitable ✗ = limited suitability 🔥 = pre-treatment by flame or Corona 🔥 = post-treatment by flame, hot air, or oven drying H = with hardener HV = adhesion modifier

UV INKS

Product Information

Ultra Disc
UVOD

Ultra Plus
UVP

Ultra Pack
UVPHR

Ultra
RotaScreen
UVRS

Ultra Star
UVS

Ultra
RotaScreen
UVSF

Ultra Star-M
UVSM

Ultra Graph
UVSP

Ultra Switch
UVSW

Ink System	UV	UV	UV	UV	UV	UV	UV	UV	UV
Drying	very fast	fast	very fast	very fast	fast	very fast	fast	fast	fast
Degree of Gloss	high gloss	high gloss	high gloss	high gloss	high gloss	high gloss	matt	high gloss	glossy
Opacity	medium	medium	medium	medium	medium	medium	high	medium	medium
Outdoor Resistance	short-term	medium-term	short-term	short-term	long-term	short-term	medium-term	medium-term	medium-term
Special Characteristics	optimized rheology	chemically resistant	high-reactive	for rotary screen printing	universal use	silicone-free, for rotary screen printing	matt surface	very good print definition	flexible, can be embossed
Basic Shades	13	13	13	13	13	-	13	13	13
4-Clr Process	4	-	-	-	-	-	-	-	-
Others	11	3	4	7	3	2	4	3	5
Specials	Fluorescent Shades	Opaque White and Black	Opaque White and Black	Opaque White, Relief Varnish	Opaque White and Black	Opaque White	Opaque Black	Opaque White and Black	Window Varnishes
Auxiliaries									
Thinner	UVV 1/2	UVV 2	UVV 3	-	UVV 2	-	UVV 2	UVV 1/2	UVV 6
Thinner (more flexibility)	-	-	UVV 6	-	-	UVV 6	-	-	-
Adhesion Modifier (Metal)	-	UV-HV 4	-	-	-	-	-	-	-
Adhesion Modifier (Glass)	-	UV-HV 7	-	-	-	-	-	-	-
Adhesion Modifier (other)	-	-	-	-	UV-HV 4	-	UV-HV 4	-	-
Accelerator (depth cure)	-	UV-B 1	UV-B 1	-	UV-B 1	-	UV-B 1	UV-B 1	UV-B 1
Accelerator (surface cure)	-	-	-	-	UV-B 2	-	-	UV-B 5	-
Hardener	-	-	H 3	-	-	-	H 1	-	-
Varnish/Clear	UVOD 904/912/914	UVP 904	UVPHR 910/904	UVRS 910/904	UVS 904	UVSF 910	UVSM 904	UVSP 910	UVSW 904/912/913
Transparent Base	UVOD 409	-	-	-	-	-	UVSM 409	UVSP 409	-
Thickening Agent	STM	STM	STM	UV-TA 1	STM	STM	STM	STM/UV-TA 1	UV-TA 1
Levelling Agent	UV-VM	UV-VM	UV-VM	-	UV-VM	-	UV-VM	UV-VM	-
Other additives	-	-	UV-SA 1	-	-	-	-	-	-
Cleaner	UR 3/4/5	UR 3/4/5	UR 3/4/5	UR 3/4/5	UR 3/4/5	UR 4/5	UR 3/4/5	UR 3/4/5	UR 3/4/5
Substrates									
ABS/SAN		✓							
Acrylic Glass (PMMA)		✓ HV							
Anodised Aluminium		✓ HV							
Glass, Ceramics		✓ (Glass)							
Metals		✓ HV							
Paper, corrugated Cardboard				✓	✓	✓	✓	✓	
PETG, PETA		✓ HV	✓					✓ (PETG)	
Polyactide (PLA)									
Polyamide (PA)									
Polycarbonate (PC)	✓	✓					✓	✓	✓
Polyester Foil, coated				✓	✓	✓			✓
Polyethylene (PE), pre-treated		✓ HV	✓	✓	✓	✓	✓ HV		
Polypropylene (PP), pre-treated		✓ HV	✓	✓	✓	✓	✓ HV		
Polypropylene (PP), un-treated									
Polystyrene (PS)		✓					✓	✓	
PVC, self-adhesive foil		✓		✓	✓	✓	✓		
PVC, rigid		✓			✓		✓	✓	
PVC, soft					✓				
Textiles, Cotton									
Textiles, Synthetics									
Thermosetting Plastics									
Traffic Sign Foil, retro-reflective									
Varnished Surfaces		✓ HV							
Wood									
Typical or additional Application	All Optical Disc Formats	Industrial Screen Printing	Container Printing	Label Printing	Graphic Screen Printing	Label Printing	Graphic Screen Printing	Graphic Screen Printing	Membran Switches

✓ = suitable ✓ = limited suitability ⚡ = pre-treatment with PLR HV = adhesion modifier

SOLVENT BASED INKS

Product Information	Mara® Flex FX	Mara® Gloss GO	Mara® Glow GW	Mara® Cure HY	Libra Matt LIM	Libra Print LIP	Libra Speed LIS	Mara® Chrome MCa	Mara® Glass MGHT
Ink System	solvent, 1C/2C	solvent, 1C	solvent, 1C	solvent, 2C	solvent, 1C	solvent, 1C	solvent, 1C	solvent, 1C	solvent, 1C
Drying	fast	medium	fast	very fast, hybrid	fast	fast	very fast	medium	fast
Degree of Gloss	satin gloss	glossy	matt	high gloss, satin gloss	matt	glossy	glossy	glossy	satin gloss
Opacity	medium	high	low	transparent	high	medium	medium	medium	high
Outdoor Resistance	medium-term	medium-term	long-term	medium-term	medium-term	medium-term	long-term	long-term	medium-term
Special Characteristics	suitable for lamination	flexible ink film, vacuum formable	low-odour, long- and short-term phosphorescent	highest resistance	matt ink film, low-odour	very good printability, vacuum formable	vacuum formable, blocking resistant	mirror ink for second surface	temperature-resistant
Basic Shades	17	21	-	-	17	17	21	-	-
4-Clr Process	-	-	-	-	-	4	4	-	-
Other	10	7	3	2	6	3	16	1	3
Specials	Metallic Mixing System, Offset Base	Fluorescent Shades	Long- and Short-Term Phosphorescents	HY 911/914	Block-Out Silver, Offset Base	Higher Density 4Clr. Process, Flexible White	PANTONE®, High Fade Resistant Shades	Mirror Silver	Opaque White and Black
Auxiliaries									
Thinner	UKV 1	QNV	UKV 2	PV	UKV 2	UKV 2	UKV 1/UKV 2	PLR	GLV/YV
Thinner, mild	UKV 2	-	-	-	-	PSV	PSV	-	-
Thinner, fast	-	7037	UKV 1	-	7037	PSV	7037	-	-
Retarder	SV 5	SV 1	SV 1	-	SV 1	SV 5	SV 1	-	-
Retarder, slow	SV 10	SV 9	-	-	SV 9	SV 10	SV 10/SV 12	-	SV 3
Retarder Paste	-	VP	-	-	VP	VP	VP	-	-
Hardener	H 4	-	-	H 1	-	-	-	-	-
Hardener, fast	-	-	-	-	-	-	-	-	-
Varnish/Bronze Binder	FX 910/903/904	GO 910	-	HY 911/914	LIM 910	LIP 910	LIS 910/911	-	MGHT 910
Transparent Base	-	-	-	-	LIM 409	LIP 409	LIS 409	-	-
Thickening Agent	-	-	-	-	-	-	-	-	STM
Levelling Agent	ES	ES/SA 1	ES/SA 1	-	ES/SA 1	ES/SA 1	ES/SA 1	-	ES
Cleaner	UR 3/4/5	UR 3/4/5	UR 3/4/5	UR 3/4/5	UR 3/4/5	UR 3/4/5	UR 3/4/5	UR 4	UR 3/4/5
Substrates									
ABS/SAN	✓		✓	✓		✓	✓		
Acrylic Glass (PMMA)		✓	✓	✓	✓	✓	✓	✓	
Anodised Aluminium									
Glass, Ceramics								✓	✓
Metals									
Paper, corrugated Board		✓	✓		✓	✓	✓		
PETG, PETA		✓				✓ (PETG)		✓	
Polyactide (PLA)									
Polyamide (PA)									
Polycarbonate (PC)		✓	✓	✓	✓	✓	✓	✓	
Polyester Foil, coated					✓			✓	
Polyethylene (PE), pre-treated									
Polypropylene (PP), pre-treated									
Polypropylene (PP), un-treated									
Polystyrene (PS)			✓		✓	✓	✓		
PVC, self-adhesive foil		✓	✓		✓	✓	✓		
PVC, rigid	✓	✓	✓	✓	✓	✓	✓		
PVC, soft		✓💧			✓💧	✓💧			
Textiles, Cotton									
Textiles, Synthetics									
Thermosetting Plastics									
Traffic Sign Foil, retro-reflective									
Varnished Surfaces									
Wood		✓				✓			
Typical or additional Application	Identity Cards	Graphic Screen Printing	Glow-in-the-dark Applications	hight resistant Automotive Varnishes	Automotive	Graphic Screen Printing	Acrylic Signs, Backlit Signage	Displays and Glass Decoration	High-temperature Application

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SOLVENT BASED INKS

Product Information	Mara® Glass MGL	Mara® Glass MGLA	Mara® Tech MGO	Mara® Panel MPA	Mara® Mold MPC	Mara® Mold MPX	Mara® Switch MSW	Mara® Poly P	Mara® Plan PL
Ink System	solvent, 2C	solvent, 2C	solvent, 1C	solvent, 1C/2C	solvent, 1C/2C	LM 2K	solvent, 1C	solvent, 2C	solvent, 1C
Drying	fast	fast	fast	fast	fast	fast	fast	fast	fast
Degree of Gloss	high gloss	glossy	high gloss	satin gloss	satin gloss	glossy	satin gloss	high gloss	satin gloss
Opacity	medium	very high	high	high	medium	high	high	high	high
Outdoor Resistance	-	long-term	medium-term	-	medium-term	medium-term	medium-term	long-term	long-term
Special Characteristics	silicone-free, dishwasher resistant	suitable for lamination	high chemical resistance	high resistance against humidity and chemicals	high temperature resistance	silicone-free, high temperature resistance	flexible, can be embossed, mild odour	high alkaline resistance	plasticiser resistant
Basic Shades	16	-	17	-	17	11	17	17	13
4-Clr Process	-	-	-	-	-	-	-	-	-
Other	14	2	7	2	2	7	14	3	3
Specials	Etch Imitations, High-Opaque Shades, Metallics	Opaque White and Black	High-Opaque Shades, Overprint Varnish	Opaque White and Black	Press-ready Silver, Overprint Varnish	Press-ready Silver, Non-conductive Black	High-Opaque Shades, Press-ready Silver	Overprint Varnishes	Press-ready Silver and Gold
Auxiliaries									
Thinner	MGLV	PV	GLV/TPV/UKV 1*	UKV 2	UKV 1	UKV1	UKV 2	PV	PLV
Thinner, mild	-	-	-	-	-	-	-	-	-
Thinner, fast	-	-	TPV 2/TPV 9	-	-	-	-	-	7037
Retarder	SV 11	SV 1	-	SV 5	SV 1	SV 5	SV 5	SV 5	-
Retarder, slow	-	-	SV 3*	-	SV 10	-	SV 10	SV 10	-
Retarder Paste	-	-	-	-	-	-	VP	-	-
Hardener	MGLH	HT 1/UV-HV 7	-	H 1/H 4	H 1	H 5	-	H 1	-
Hardener, fast	-	-	-	-	-	-	-	-	-
Varnish/Bronze Binder	MGL 910	-	MGO 910	-	MPC 910	MPX 910	MSW 904/910	P 910/911/913	-
Transparent Base	-	-	-	-	-	-	-	-	-
Thickening Agent	-	-	STM	-	-	-	-	-	-
Levelling Agent	VM 2/SA 1	VM 1	ES	ES	-	-	ES	VM 2/SA 1	SA 1
Cleaner	UR 3/4/5	UR 3/4/5	UR 4/5	UR 3/4/5	UR 3/4/5	UR 3/5	UR 3/4/5	UR 3/4/5	UR 3/4/5
Substrates									
ABS/SAN							✓		
Acrylic Glass (PMMA)				✓		✓	✓		
Anodised Aluminium	✓💧		✓💧🔥						
Glass, Ceramics	✓🔥	✓	✓🔥						
Metals	✓💧		✓💧🔥						
Paper, corrugated Board									
PETG, PETA							✓ (PETG)		
Polyactide (PLA)									
Polyamide (PA)								✓	
Polycarbonate (PC)				✓	✓	✓	✓		✓
Polyester Foil, coated						✓	✓		
Polyethylene (PE), pre-treated								✓	
Polypropylene (PP), pre-treated						✓		✓	
Polypropylene (PP), un-treated									
Polystyrene (PS)							✓		
PVC, self-adhesive foil							✓		
PVC, rigid							✓	✓	
PVC, soft									✓💧
Textiles, Cotton									
Textiles, Synthetics									
Thermosetting Plastics									
Traffic Sign Foil, retro-reflective									
Varnished Surfaces	✓💧		✓💧🔥					✓💧	
Wood									
Typical or additional Application	Glass, for Indoor Applications	For 3C Applications	Perfume bottles, Front Panels (metal), Touch Panels (glass)	Front Panels for Household Appliances	Inmold Application (second surface)	Inmold Application (second surface)	Membrane Switches	Bottle Crates made of PE/PP	Soft-PVC, Tarpaulins

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SOLVENT BASED INKS

Product Information

Mara® Prop
PP

Mara® Pur
PU

Mara® Pol
PY

Mara® Speed
SL

Mara® Star
SR

Mara® Flor
TK

Mara® Poxy
Y

Ink System	solvent, 1C	solvent, 2C	solvent, 1C/2C	solvent, 1C	solvent, 1C/2C	solvent, 2C	solvent, 2C
Drying	medium	medium	medium	very fast	very fast	fast	fast
Degree of Gloss	satin gloss	high gloss	high gloss	satin gloss	high gloss	matt	glossy
Opacity	medium	high	high	medium	high	high	high
Outdoor Resistance	medium-term	long-term	medium-term	medium-term	long-term	medium-term	-
Special Characteristics	for un-treated PP, flexible	resistant to chemicals	flexible ink film	blocking re-sis-tant, vacu-um formable	resistant to petrol	high wash resistance	high alkaline resistance
Basic Shades	14	21	21	21	21	17	12
4-Clr Process	-	-	-	-	-	-	-
Other	3	5	2	3	33	2	1
Specials	Opaque White and Black	Opaque White, Varnish with UV-Absorber	Opaque White	Press-ready Silver and Gold	PANTONE®, Transparent Shades, Metallics	Opaque White	Overprint Varnish
Auxiliaries							
Thinner	UKV 1/QNV	PUV	UKV 1	UKV 1/UKV 2	UKV 1	UKV 1	QNV/UKV 1
Thinner, mild	-	-	UKV 2	PSV	UKV 2	UKV 2	-
Thinner, fast	PPTPV	7037	7037	7037	7037	-	-
Retarder	SV 1	SV 5	SV 12	SV 5	SV 5/SV 1	SV 1	SV 5
Retarder, slow	-	SV 1/SV 9	SV 9	SV 10	SV 9/SV 10	-	SV 3
Retarder Paste	-	-	-	VP	VP	-	-
Hardener	-	H 1/HT 1/H 4	H 1/HT 1	-	H 1	-	-
Hardener, fast	-	H 2	H 2	-	-	H 2	YH 9
Varnish/Bronze Binder	PP 902	PU 910/911	PY 910	SL 910	SR 910/911	TK 902	Y 910
Transparent Base	-	-	-	-	SR 409	-	-
Thickening Agent	-	-	-	-	-	STM	-
Levelling Agent	ES	ES/SA 1	ES/SA 1	ES/SA 1	ES/SA 1	SA 1	VM 1/SA 1
Cleaner	UR 3/4/5	UR 3/4/5	UR 3/4/5	UR 3/4/5	UR 3/4/5	UR 3/4/5	UR 3/4/5
Substrates							
ABS/SAN			✓ H	✓	✓		
Acrylic Glass (PMMA)					✓		
Anodised Aluminium		✓			✓ H		✓
Glass, Ceramics							
Metals		✓	✓ H				
Paper, corrugated Board				✓	✓		
PETG, PETA			✓ H		✓ H		
Polyactide (PLA)					✓ H		
Polyamide (PA)		✓	✓ H		✓ H		
Polycarbonate (PC)					✓		
Polyester Foil, coated					✓		
Polyethylene (PE), pre-treated		✓	✓ H				✓
Polypropylene (PP), pre-treated	✓	✓	✓ H				✓
Polypropylene (PP), un-treated	✓						
Polystyrene (PS)				✓			
PVC, self-adhesive foil				✓	✓		
PVC, rigid			✓	✓	✓		
PVC, soft							
Textiles, Cotton						✓	
Textiles, Synthetics						✓	
Thermosetting Plastics			✓ H		✓ H		✓
Traffic Sign Foil, retro-reflective							
Varnished Surfaces		✓	✓ H		✓ H		✓
Wood		✓	✓		✓		
Typical or additional Application	Folders and Banners made of PP	Metal Housings	Container Printing	Graphic Screen Printing	Container Printing	Sun Shades, Sun Blinds	Bottle Crates

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Do you need
technical support?
We will be glad to help you:
Phone: +49 (0) 7141-691-140
technical.hotline@marabu.com

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