

## Ink to Substrate Compatibility Chart

Thermoplastics				
SUBSTRATE:	ASTM ISO Abbrev.	Plastics Family	Trade Name	Compatible Stock Inks
Acrylonitrile Butadiene Styrene	ABS	ABS	Cycolac	B - E - P - U - W - PD - PG - PL - PV - UVA - UVE - UVHC
Polyphenylene Ether	PPE	Polyphenylene	Prevex	B - PV - W
Polyoxy methylene §1 §2 §3	POM	Acetal	Delrin	B - B/GL - PV - W
Polybutylene Terephthalate §2	PBT	Polyester	Hytrel	B - P - PV
Polymethyl Methacrylate	PMMA	Acrylic	Acrylite	B - P - U - W - PD - PG - PV - UVE
Cellulose Acetate	CA	Cellulosic	Tenite	B - PV
Cellulose Acetate Butyrate	CAB	Cellulosic	N/A	B - W - PG - PV
Cellulose Acetate Propionate	CAP	Cellulosic	N/A	N/A
Cellulose Nitrate	CN	Cellulosic	N/A	N/A
Ethylene Vinyl Acetate §2	EVA	N/A	Cobothane	N/A
Polyphenylene Oxide §1 §2	PPO	Polyphenylene	Noryl	B - P - W - PV
Polyamides	PA6	Polyamides	Nylon	B - P - W - PV - UVE
Polyamides §2	PA12	Polyamides	Nylon	B - P - W - PV - UVE
Polycarbonate §2	PC	Polycarbonate	Lexan	B - P - W - PG - PH - PV - UVA - UVE - UVHC
Polyester §2	SP	Polyester	Valox	B - J - P - W - UVE
Polyetherimide	PEI	Polyetherimide	Ultem	B - P
Polyethylene (High Density) §1 §2	PE, HDPE, UHMW	Polyolefin	Petrothene	B - P - W - PH - PV
Polyethylene (Low Density) §1 §2	PE, LDPE, HMWPE	Polyolefin	Petrothene	N/A
Polyethylene Terephthalate	PET	Polyester	N/A	B - P - PV
Polyimide §2	PI	Polyimide	Kapton	B - P - PV
Polyimide Filaments §2	PI	Polyimide	Tynex	N/A
Polymethyl Pentene §1 §2	PMP, TPX	Polyolefin	N/A	N/A
Polyphenylene Sulfide §2	PPS	Polyphenylene	Ryton	B - P - PV
Polyphenylsulfone §2	PPSO	Sulfone	Udel	B - W - PV
Polypropylene §1 §2	PP	Polyolefin	N/A	B - J - P - W - PM - PV
Polystyrene	PS, HIPS	Polystyrene	N/A	E - P - U - W - PG - UVHC - UVE
Polysulfone	PSO	Sulfone	Udel	B - P - W - PV
Polytetrafluoroethylene §2	PTFE	Fluoroplastic	Teflon	N/A
Polyvinyl Chloride Plasticized	PVC-P	Vinyl	N/A	U - PG - PH
Polyvinyl Chloride Rigid §2	PVC	Vinyl	N/A	B - U - W - PG - PV - UVE
Silicone Rubber §5	Silicone Rubber	elastomer	N/A	411
Styrene Acrylonitrile §2	SAN	Copolymer	N/A	E - P - U - PG - UVHC
Styrene Butadiene §2	SBP	Copolymer	K-Resin	P - PG
Miscellaneous Thermoplastics	N/A	N/A	N/A	E - J - PD - PG - UVHC

# Ink to Substrate Compatibility Chart continued

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<b>Thermosets</b>				
Epoxy Resin	EP	Epoxy	Novolak	B - W - PV
Phenol Formaldehyde Resin §2	PF	Phenolic	N/A	B - P - W - UVE - PV
Polyester Epoxy Resin	EP	Polyester	Cyglas	B - P - PV
Polyurethane Rigid §1 §2	PU	Urethane	N/A	B - P - W - PH - PV - UVE
Rubber §2	IR	Elastomer	N/A	PH
Urea Formaldehyde Resin	UF	Urea	BakeLite	B - P - PV
Miscellaneous Thermosets	N/A	N/A	N/A	B/GL
<b>Metals</b>				
Aluminum §2	AL	N/A	N/A	B - P - W - PV - UVE
Anodized Metal	N/A	N/A	N/A	B - W - PG - PV
Brass	N/A	N/A	N/A	B - W - PG - PV
Chrome Plate §2	Cr	N/A	N/A	B - B/GL - W - PV
Copper	Cu	N/A	N/A	B - W - PH - PV - UVE
Bronze	N/A	N/A	N/A	B - PV
Iron	Fe	N/A	N/A	B - PV - W
Nickel Plate	Ni	N/A	N/A	B/GL - UVE
Stainless Steel §2	SS	N/A	N/A	B/GL - W - UVE
Steel	N/A	N/A	N/A	B - W - PV
Tin	Sn	N/A	N/A	B - PV
Titanium	Ti	N/A	N/A	B - PV - W
Miscellaneous Metals	N/A	N/A	N/A	B - B/GL - W - PV - UVE - UVHC
<b>Miscellaneous Materials</b>				
Ceramic	N/A	N/A	N/A	B - B/GL - P - PV - W - UVE
Glass	N/A	N/A	N/A	B - B/GL - W - PV - UVE
Latex	N/A	N/A	N/A	N/A
Leather	N/A	N/A	N/A	P - PV
Onyx Stone	N/A	N/A	N/A	B/GL
Paper	N/A	N/A	N/A	P - U - PG
Porcelain	N/A	N/A	N/A	B/GL - P - W
Textiles	N/A	N/A	N/A	P
Wood	N/A	N/A	N/A	B - P - PV

# Ink to Substrate Compatibility Chart continued

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<b>Flexible Plastics</b>				
Rubber §1 §4	PBR	Elastomer	N/A	N/A
Sanoprene §1 §4	N/A	Elastomer	N/A	PH
Santoprene §1 §4	N/A	Elastomer	N/A	PH
Silicone Rubber §5	SI	Elastomer	Fiberite	411
Alcryn	N/A	N/A	Alcryn	PG - PH
Urethane, Flexible §1 §2	PU	Urethane	N/A	B - W - PG - PV - PH
Misc. Flexible Plastics	N/A	N/A	N/A	PG - PH
<b>Coatings &amp; Paints</b>				
PowderCoat	N/A	N/A	N/A	B - PV - UVE
Softouch Paint	N/A	N/A	N/A	B - PV - PH
Softouch Sprayed Rubber	N/A	N/A	N/A	PH
Surlyn §1 §2	N/A	N/A	N/A	B - PV - W - PM
Teflon Paint §2	N/A	N/A	N/A	B - PV - P
Urethane Paint / Coating	N/A	N/A	N/A	B - PV
UV Coating §1	N/A	N/A	N/A	B/GL - PV - P
Miscellaneous Coatings & Paints	N/A	N/A	N/A	B - B/GL - P - O - P - R - U - W - PG - PH - PV - UVHC
<b>Other Plastics</b>				
Acrylic / PVC Blend	N/A	N/A	Kydex	PG
Acrylic Sheets & Molding Powders	N/A	N/A	Plexiglas	B - PV - PG
Cellophane §1	N/A	N/A	N/A	P - U
C-Resin §1	N/A	N/A	N/A	B - PV
Formica	N/A	N/A	N/A	B - B/GL - PV
Hostra	N/A	N/A	N/A	B - PV
Mylar	N/A	N/A	N/A	UVE
Polycarbonate / ABS	N/A	N/A	Cycoloy	B P - PG - PV
Thermoplastic Polyester Resin	N/A	N/A	Rynite	B - P - PV
Viton §1	N/A	N/A	N/A	B - PV

# Ink to Substrate Compatibility Chart Continued

*§1 : Indicates substrate may require Pretreatment.*

*§2 : Indicates substrate may require Electrical Surface Treatment  
(EST or Corona).*

*§3 : Indicates printed substrate may require Flame Curing.*

*§4 : Indicates printed substrate may require PP Wipe-On Solution.*

*§5 : Indicates printed substrate requires heat curing at 204° C (400° F)*



**Trusted Partner for Your Product Decorating Needs**

Trans Tech 475 North Gary Avenue, Carol Stream, IL 60188

Tel +1 (630) 752 4000 Fax +1 (630) 752 4467

Email [sales@itwtranstech.com](mailto:sales@itwtranstech.com)

[www.itwtranstech.com](http://www.itwtranstech.com) [www.itwids.com](http://www.itwids.com)

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