

RESISTANCES OF PAD PRINTING INKS

CROSSLINKING CONDITIONS	AIR DRYING (> 48H / 27°C / 81° F / 55 % HUMIDITY)																OVEN CURING (30 MIN/140°C PLUS 24H AT REST)																																			
INK LINE	SERIES 711				SERIES 750				SERIES 752				SERIES 754				SERIES 784				SERIES 711				SERIES 750				SERIES 752				SERIES 754				SERIES 784															
SECOND COMPONENT	NONE	700-HDI	700-HDR	700-HDI	700-GL	700-HDR	NONE	700-HDI	700-HDI	700-HDR	700-HDI	700-HDR	700-HDI	700-HDI	700-HDR	700-HDA	NONE	700-HDI	700-HDR	700-HDI	700-GL	700-HDR	NONE	700-HDI	700-HDI	700-HDR	700-HDI	700-HDR	700-HDI	700-HDI	700-HDR	700-HDI	700-HDR	700-HDI	700-HDI	700-HDR	700-HDI	700-HDR														
MIXING RAT		10:1	10:1	4:1	20:1	4:1		10:1	5:1	5:1	4:1	4:1	10:1	4:1	4:1	4:1		10:1	10:1	4:1	20:1	4:1		10:1	5:1	5:1	4:1	4:1	10:1	4:1	4:1	4:1	4:1	4:1	4:1	4:1	4:1	4:1														
X →	NUMBER OF DOUBLE-PUSHES WITH A SOAKED IN TEST MEDIUM COTTON SHEET TO GET A VISUAL CHANGE OF INK SURFACE																																																			
METHYLETHYLKETONE	Red	Red	Red	Red	Green	Green	Red	Red	Red	Green	Green	Green	Green	Green	Green	Green	Red	Red	Red	Red	Green	Green	Red	Red	Red	Red	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green														
ETHYLACETATE	Red	Red	Red	Red	Green	Green	Red	Red	Red	Green	Green	Green	Green	Green	Green	Green	Red	Red	Red	Red	Green	Green	Red	Red	Red	Red	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green													
ETHANOL	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green													
ISOPROPYLALCOHOL	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green													
XYLENE	Red	Green	Green	Green	Green	Green	Red	Red	Red	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Red	Red	Red	Red	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green													
LACQUERBENZINE	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green													
SUPERGASOLINE	Green	Green	Green	Green	Green	Green	Red	Red	Red	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Red	Red	Red	Red	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green												
MOTOROIL	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green													
BRAKEFLUID	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green													
BATTERYACID	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green													
HOUSEHOLDCLEANER	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green													
WINDOWCLEANER	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green													
AFTER SHAVE	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green													
HANDCREAM	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green													
PHOSPHORICACID, 20%	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green													
CAUSTICSODA, 20%	Red	Red	Red	Red	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Red	Red	Red	Red	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green													
↓ TEST X →	COMBINATION OF EXPERIENCES, RAW MATERIAL VALUES AND TESTS OF Q-UV-WEATHERABILITY (3000H CYCLE-TEST)																																																			
OUTSIDE RESISTANCE	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green													
↓ TEST X →	PERIOD OF TIME UNDER NORMAL CONDITIONS (23°C / 65 % HUMIDITY) TO GET A TEMPERATURE CHANGEMENT OF INK-HARDENER-MIXTURE																																																			
POT LIFE		>12	>12	>12	>12	>8		>16	>8	>8	>12	>8	>16	>8	>8	>12		>12	>12	>12	>12	>8		>16	>8	>8	>12	>8	>16	>8	>8	>12	>8	>16	>8	>8	>12															
↓ TEST X →	GLOSS-MEASUREMENT OF BLACK -8005, PRINTED ON WHITE, MAT SURFACE, ANGLE 60°, BYK TRIGLOSS MEASURING INSTRUMENT **																																																			
GLOSS	25	35	35	70	40	85	80	55	60	70	65	90	50	65	65	55	20	25	35	70	40	60	40	50	50	50	70	70	50	60	60	60	60	60	60																	
↓ TEST X →	DETERMINE OF VISUAL DISCERNIBLE SURFACE-ABRASION WHEN SCRUB WITH A COATED OFFSET-PAPER , HAND -PRESSURE, 20 DOUBLE PUSHES																																																			
ABRASION RESISTANCE	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green													
↓ TEST X →	PERIOD OF TIME (IN SECONDS-S) BETWEEN PAD PRINTING PROCESS (OPEN SYSTEM) AND THE SUBJECTIVE DETERMINATION OF TAKE-FREE CONDITIONS AT THE INK SURFACE																																																			
ROOM TEMP. 25°C (76° F)	6	8	9	15	12	16	5	7	9	10	28	30	5	5	6	5	↻ Same results like air drying																																			
BLOW AT 50 °C (122° F)	4	5	6	10	6	12	3	5	7	8	12	15	2	3	4	4	↻ Same results like air drying																																			
↓ TEST X →	PERFECT THINNER AND IDEAL RATIO (FOR EXAMPLE:																700-017 20 WEIGHT.-%) IN RELATION TO PRINTING SYSTEM / INK LINE / DRYING CONDITIONS / HARDENER																																	
OPEN SYSTEM	700-017	700-017	700-017	700-017	700-017	700-017	700-017	700-017	700-017	700-017	700-017	700-017	700-017	700-017	700-017	700-017	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	↻ Same recommendations like air drying															
CLOSED SYSTEM	700-019	700-019	700-019	700-019	700-019	700-019	700-019	700-019	700-019	700-019	700-019	700-019	700-019	700-019	700-019	700-019	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%															
ROTATIVE SYSTEM	700-019	700-019	700-019	700-019	700-019	700-019	700-019	700-019	700-019	700-019	700-019	700-019	700-019	700-019	700-019	700-019	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%														

A information of Printcolor Screen Ltd. All descriptions in this list came up with trials in laboratory in addition with practical experiences. The recommendations are without guarantee and doesn't replace the in all cases necessary own tests. All tests have been made with the black MS -8005. **Higher gloss for the most other color shades ! Jun-02

poor
 moderate
 mediocre
 good
 excellent