

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-HDI	700-HDR	700-HDA	
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		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					
X →		NUMBER OF DOUBLE-PUSHES WITH A SOAKED IN TEST MEDIUM COTTON SHEET TO GET A VISUAL CHANGE OF INK SURFACE																																			
METHYLETHYLKETONE																																					
ETHYLACETATE																																					
ETHANOL																																					
ISOPROPYLALCOHOL																																					
XYLENE																																					
LACQUERBENZINE																																					
SUPERGASOLINE																																					
MOTOROIL																																					
BRAKEFLUID																																					
BATTERYACID																																					
HOUSEHOLDCLEANER																																					
WINDOWCLEANER																																					
AFTER SHAVE																																					
HANDCREAM																																					
PHOSPHORICACID, 20%																																					
CAUSTICSODA, 20%																																					
↓ TEST X →		COMBINATION OF EXPERIENCES, RAW MATERIAL VALUES AND TESTS OF Q-UV-WEATHERABILITY (3000H CYCLE-TEST)																																			
OUTSIDE RESISTANCE																																					
↓ 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				
↓ 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			
↓ TEST X →		DETERMINE OF VISUAL DISCERNIBLE SURFACE-ABRASION WHEN SCRUB WITH A COATED OFFSET-PAPER, HAND -PRESSURE, 20 DOUBLE PUSHES																																			
ABRASION RESISTANCE																																					
↓ 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	↻ Same recommendations like air drying																			
CLOSED SYSTEM		15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%																				
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	700-019																			
		10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%																				
		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	700-019																			
		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