



JemFlex – Flexographic Printing Plates –

Types of Plate		DHG		DGX		DSR		DSL		DFL		DFR		3H		SR		SL		GX		HX		FL		FR			
Washout solution		Solvent												Solvent															
Processing system		Digital												Analogue															
Application	Flexible Film Packages	◎		◎		◎		◎		-		-		◎		◎		◎		◎		◎		-		-			
	Carrier Paper Bags	○		○		-		-		○		○		○		-		-		◎		◎		○		○			
	Paper Sacks	-		-		-		-		○		○		-		-		-		-		-		○		○			
	Tags & Labels, Envelopes	◎		◎		○		◎		-		-		◎		○		◎		○		○		-		-			
	Beverage Cartons	○		○		-		○		-		-		◎		-		○		○		○		-		-			
	Folding cartons, Pre-Print Liners	○		○		-		○		-		-		○		-		○		○		○		-		-			
	Corrugated Post-Print	-		-		-		-		◎		◎		-		-		-		-		-		◎		◎			
	Offset Coating	○		○		◎		◎		-		-		○		◎		◎		○		○		-		-			
Thickness / Durometer (Shore A)	Thickness Code	095 = 0.95mm (0.037")		-		-		82		N		-		-		-		82		N		-		-		-		-	
	114 = 1.14mm (0.045")	77	S	73	N	80	S	76	N	-	-	-	-	75	N	80	S	76	S	-	-	-	-	-	-	-	-		
	170 = 1.70mm (0.067")	67	S	63	N	72	S	67	N	-	-	-	-	66	S	72	S	67	N	62	N	64	N	-	-	-	-		
	228 = 2.28mm (0.090")	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57	S	59	N	-	-	-	-			
	254 = 2.54mm (0.100")	62	N	56	S	-	-	59	S	-	-	-	-	-	-	-	59	N	57	S	59	S	-	-	-	-			
	272 = 2.72mm (0.107")	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54	N	57	N	-	-	-	-			
	284 = 2.84mm (0.112")	60	N	54	N	-	-	57	N	39	N	42	S	-	-	-	57	N	54	S	57	S	39	N	42	S			
	318 = 3.18mm (0.125")	-	-	-	-	-	-	-	-	-	40	N	-	-	-	-	-	-	-	-	55	N	-	-	40	N			
	394 = 3.94mm (0.155")	-	-	-	-	-	-	-	36	N	39	N	-	-	-	-	-	-	-	-	-	-	36	N	39	N			
	470 = 4.70mm (0.185")	-	-	-	-	-	-	-	35	N	38	N	-	-	-	-	-	-	-	-	-	-	35	S	38	N			
	500 = 5.00mm (0.197")	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	550 = 5.50mm (0.217")	-	-	-	-	-	-	-	34	N	37	N	-	-	-	-	-	-	-	-	-	-	34	S	37	N			
	600 = 6.00mm (0.236")	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	635 = 6.35mm (0.250")	-	-	-	-	-	-	-	33	N	36	N	-	-	-	-	-	-	-	-	-	-	33	N	36	N			
700 = 7.00mm (0.276")	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
750 = 7.50mm (0.295")	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Repro.	Halftone Screens	1-98% 200lpi		1-98% 200lpi		1-98% 175lpi		1-98% 175lpi		3-95% 85lpi		2-95% 120lpi		2-95% 175lpi		2-95% 175lpi		2-95% 175lpi		2-95% 175lpi		2-95% 150lpi		3-95% 85lpi		3-95% 120lpi			
	Minimum Isolated Dots	0.20 mm		0.20 mm		0.20 mm		0.20 mm		0.50 mm		0.25 mm		0.20 mm		0.20 mm		0.20 mm		0.25 mm		0.25 mm		0.50 mm		0.25 mm			
	Minimum Fine Lines	0.10 mm		0.10 mm		0.05 mm		0.08 mm		0.30 mm		0.15 mm		0.10 mm		0.05 mm		0.08 mm		0.15 mm		0.15 mm		0.30 mm		0.15 mm			
Ozone, Ink Resistance	Ozone	○		○		○		○		○		○		○		○		○		○		○		○		○			
	Solvent Inks	x		x		◎		◎		x		x		x		◎		◎		x		x		x		x			
	Alcohol Inks	◎		◎		◎		◎		◎		◎		◎		◎		◎		◎		◎		◎		◎			
	Water-based Inks	◎		◎		◎		◎		◎		◎		◎		◎		◎		◎		◎		◎		◎			
	Oil-based Inks	x		x		◎		◎		x		x		x		◎		◎		x		x		x		x			
	UV Inks	○		○		◎		◎		x		x		○		◎		◎		○		○		x		x			
Process Times	Plate color (after processing)	yellow		green		light yellow		green		orange		red orange		dark brown		light yellow		green		green		dark brown		orange		red orange			
	1. Back Exposure (UVA , 14mW/cm2)	20 – 80 sec		20 – 80 sec		20 – 50 sec		20 – 80 sec		40 – 450 sec		20 – 200 sec		10 – 50 sec		20 – 50 sec		20 – 80 sec		15 – 40 sec		20 – 60 sec		40 – 450 sec		20 – 200 sec			
	2. Main Exposure (UVA , 14mW/cm2)	10 – 15 min		10 – 15 min		8 – 12 min		8 – 12 min		8 – 15 min		8 – 15 min		6 – 15 min		5 – 10 min		5 – 10 min		5 – 12 min		6 – 15 min		6 – 10 min		6 – 10 min			
	3. Washout (mm/min , hydrocarbon solvent)	120 – 220		120 – 220		150 – 220		120 – 220		120 – 180		100 – 150		150 – 220		150 – 220		150 – 220		120 – 200		120 – 200		120 – 180		100 – 150			
	4. Drying (60°C)	1.5 – 2 hr		1.5 – 2 hr		1.5 – 2 hr		1.5 – 2 hr		2 – 3 hr		2 – 3 hr		1.5 – 2 hr		1.5 – 2 hr		1.5 – 2 hr		1.5 – 2 hr		1.5 – 2 hr		2 – 3 hr		2 – 3 hr			
	5. Post Exposure (UVA)	10 min		10 min		10 min		10 min		8 min		8 min		10 min		10 min		10 min		10 min		10 min		8 min		8 min			
	6. Light Finishing (UVC)	6 – 12 min		6 – 12 min		8 – 12 min		8 – 12 min		5 – 10 min		5 – 10 min		6 – 15 min		8 – 12 min		8 – 12 min		6 – 12 min		6 – 15 min		5 – 10 min		5 – 10 min			

* Remarks:

- 1) Printing applications . . . Those marked with ◎ are very good, with ○ are fairly good and with — are not suitable for use.
- 2) Durometers subject to tolerance $\pm 2^\circ$.
- 3) Those marked with S are regularly supplied, and with N are not but shall be available depending on order quantity.
- 4) Resistance . . . Those marked with ◎ are good, with ○ are fairly good and with x are no good.
- 5) Each 1.14mm plate base film thickness is 175 μ m. The thickness of the base film of all other products is 125 μ m.
- 6) The platemaking conditions in this catalog are those found when using our platemaking equipment. Petroleum developer: Jemsolve SF (manufactured by Nihon Denshi Seiki Co., Ltd.)