

TABLE 4

	Resist Composition						Evaluation Results				
	Resin (mass %) (mass ratio)	Hydro- phobic Resin (mass %)	Photoacid			Surfac- tant (0.01 mass %)	Sensi- tivity ($\mu\text{C}/\text{cm}^2$)	Pattern Profile	Isolated Pattern Resolution (nm)	PEB Temperature Dependency (nm/ $^{\circ}\text{C}.$)	Etching Resis- tance
			Solvent (mass ratio)	Generator (mass %) (mass ratio)	Basic Compound (mass %)						
Example 2-1	P-1	—	S-1/S-2	z11	N-3	W-4	16	rectangular	75.0	0.5	A
	63		(80/20)	535	2						
Example 2-2	P-2	—	S-1/S-2	z11	N-3	W-4	19	rectangular	87.5	0.8	A
	63		(80/20)	535	2						
Example 2-3	P-3	—	S-1/S-2	z11	N-3	W-4	22	rectangular	100.0	1.0	A
	63		(80/20)	535	2						
Example 2-4	P-4	—	S-1/S-2	z11	N-3	W-4	24	rectangular	112.5	1.4	A
	63		(80/20)	535	2						
Example 2-5	P-5	—	S-1/S-2	z11	N-3	W-4	27	rectangular	112.5	1.6	A
	63		(80/20)	535	2						
Example 2-6	P-6	—	S-1/S-2	z123	N-7	W-3	18	rectangular	75.0	0.7	A
	63		(60/40)	35	2						
Example 2-7	P-7	—	S-1/S-2	z114	N-9	W-4	17	rectangular	75.0	0.9	A
	63		(70/30)	35	2						
Example 2-8	P-8	—	S-1/S-2	z114	N-9	W-4	20	rectangular	87.5	1.2	A
	63		(70/30)	35	2						
Example 2-9	P-9	—	S-1/S-2	z114	N-9	W-4	25	rectangular	100.0	1.4	A
	63		(70/30)	35	2						
Example 2-10	P-10	—	S-1/S-2	z114	N-9	W-4	28	rectangular	112.5	1.6	A
	63		(70/30)	35	2						
Example 2-11	P-11	—	S-1/S-2	z39	N-10	W-1	25	rectangular	100.0	1.5	A
	63		(90/10)	35	2						
Example 2-12	P-12	—	S-1/S-2	z39	N-10	W-1	20	rectangular	75.0	1.3	A
	63		(90/10)	35	2						
Example 2-13	P-13	—	S-1	z121	N-6	W-4	18	rectangular	87.5	1.1	A
	63			35	2						
Example 2-14	P-14	—	S-1/S-4	z32	N-8	none	22	rectangular	87.5	1.6	A
	63		(80/20)	35	2						
Example 2-15	P-15	—	S-1/S-3	z5	N-9	W-3	24	rectangular	87.5	1.2	A
	63		(80/20)	35	2						
Example 2-16	P-16	—	S-2/S-4	z33	N-6	W-1	20	rectangular	100.0	1.4	A
	63		(50/50)	35	2						
Example 2-17	P-17	—	S-1/S-4	z119	N-1	W-1	29	rectangular	100.0	1.6	A
	63		(70/30)	35	2						
Example 2-18	P-18	—	S-1/S-2	z118	N-5	W-3	26	rectangular	100.0	1.6	A
	63		(80/20)	35	2						
Example 2-19	P-19	—	S-3	z11	N-4	W-2	28	rectangular	100.0	1.5	A
	63			35	2						
Example 2-20	P-20	—	S-1/S-3	z69/z122	N-2	W-2	29	rectangular	100.0	1.3	A
	63		(70/30)	35(20/80)	2						
Example 2-21	P-21	—	S-1/S-2	z127	N-3	W-3	24	rectangular	75.0	0.7	A
	63		(80/20)	35	2						
Example 2-22	P-1/P-22	—	S-1/S-2	z67	N-7	W-4	25	rectangular	75.0	0.9	A
	63(50/50)		(70/30)	35	2						
Example 2-23	P-23	—	S-1/S-2	z108	N-8	W-4	20	rectangular	87.5	0.9	A
	63		(80/20)	35	2						
Example 2-24	P-24	HR-1	S-2/S-1	—	N-6	W-3	23	rectangular	125.0	1.5	A
	88	10	(90/10)		2						
Example 2-25	P-34	HR-24	S-1/S-2	z132	N-11	W-4	25	rectangular	100.0	1.5	A
	86	3	(60/40)	10	1						
Example 2-26	P-35	HR-29	S-1/S-2	z133	N-12	W-4	24	rectangular	87.5	1.3	A
	62	5	(80/20)	30	3						
Example 2-27	P-29	—	S-2/S-1	z130	N-11	W-2	28	rectangular	87.5	1.7	A
	94		(70/30)	5	1						
Example 2-28	P-26	—	S-2/S-1	—	N-12	W-3	26	rectangular	100.0	1.1	A
	98		(80/20)		2						
Example 2-29	P-31	—	S-2	—	N-11	W-3	29	rectangular	87.5	1.4	A
	97				3						
Example 2-30	P-38	—	S-1/S-2	z132	N-11	W-1	26	rectangular	87.5	1.5	A
	78		(70/30)	20	2						
Comparative	Ab'-1		S-1/S-4	z119	N-1	W-1	37	reverse	150.0	1.8	B
Example 2-1	63		(70/30)	35	2			tapered			
Comparative	Ab'-2		S-1/S-2	z118	N-5	W-3	36	reverse	150.0	1.9	B
Example 2-2	63		(80/20)	35	2			tapered			
Comparative	Ab'-3		S-3	z11	N-4	W-2	30	tapered	125.0	3.5	A
Example 2-3	63			35	2						
Comparative	Ab'-4		S-1/S-3	z69/z122	N-2	W-2	31	tapered	125.0	3.3	A
Example 2-4	63		(70/30)	35(20/80)	2						