



SPRING DIE MOULD PART INDUSTRY FACTORY

DWR

高變形用
Mold Return Pin

呼稱 Model	外徑 (mm) Outer Dia	內徑 (mm) Inner Dia	自由長(mm) Free Length	定數 (Kgf/mm) Spring Constant	30萬回 (自由長%) 0.3 million (% of free length)		50萬回 (自由長%) 0.5 million (% of free length)		100萬回 (自由長%) 1 million (% of free length)	
					變形量(mm) Deflection	荷重 Kgf(N) Load	變形量(mm) Deflection	荷重 Kgf(N) Load	變形量(mm) Deflection	荷重 Kgf(N) Load
DWR 14.5 × 20	14.5	9.0	20	1.11	10.0	11 (107.9)	9.0	10 (98.1)	8.0	9 (88.3)
25			25	0.89	12.5		11.3		10.0	
30			30	0.74	15.0		13.5		12.0	
35			35	0.64	17.5		15.8		14.0	
40			40	0.56	20.0		18.0		16.0	
45			45	0.49	22.5		20.3		18.0	
50			50	0.44	25.0		22.5		20.0	
55			55	0.40	27.5		24.8		22.0	
60			60	0.37	30.0		27.0		24.0	
65			65	0.34	32.5		29.3		26.0	
70			70	0.32	35.0		31.5		28.0	
75			75	0.30	37.5		33.8		30.0	
80			80	0.28	40.0		36.0		32.0	
90			90	0.25	45.0		40.5		36.0	
100			100	0.22	50.0		45.0		40.0	
125	125	0.18	62.5	56.3	50.0					
DWR 17 × 25	17.0	11.0	25	1.51	12.5	19 (186.3)	11.3	17 (166.7)	10.0	15 (147.1)
30			30	1.26	15.0		13.5		12.0	
35			35	1.08	17.5		15.8		14.0	
40			40	0.94	20.0		18.0		16.0	
45			45	0.84	22.5		20.3		18.0	
50			50	0.76	25.0		22.5		20.0	
55			55	0.69	27.5		24.8		22.0	
60			60	0.63	30.0		27.0		24.0	
65			65	0.58	32.5		29.3		26.0	
70			70	0.54	35.0		31.5		28.0	
75			75	0.50	37.5		33.8		30.0	
80			80	0.47	40.0		36.0		32.0	
90			90	0.42	45.0		40.5		36.0	
100			100	0.38	50.0		45.0		40.0	
125			125	0.30	62.5		56.3		50.0	
150	150	0.25	75.0	67.5	60.0					



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					變形量(mm) Deflection	荷重 Kgf(N) Load	變形量(mm) Deflection	荷重 Kgf(N) Load	變形量(mm) Deflection	荷重 Kgf(N) Load
DWR 21×30	21.0	13.0	30	1.41	15.0	21 (205.9)	13.5	19 (186.3)	12.0	17 (166.7)
35			35	1.21	17.5		15.8			
40			40	1.06	20.0		18.0			
45			45	0.94	22.5		20.3			
50			50	0.84	25.0		22.5			
55			55	0.77	27.5		24.8			
60			60	0.70	30.0		27.0			
65			65	0.65	32.5		29.3			
70			70	0.60	35.0		31.5			
75			75	0.56	37.5		33.8			
80			80	0.53	40.0		36.0			
90			90	0.47	45.0		40.5			
100			100	0.42	50.0		45.0			
125			125	0.34	62.5		56.3			
150			150	0.28	75.0		67.5			
DWR 26×30	26.0	16.5	30	2.74	15.0	41.0 (402.1)	13.5	37.0 (362.8)	12.0	33.0 (323.6)
35			35	2.35	17.5		15.8			
40			40	2.06	20.0		18.0			
45			45	1.83	22.5		20.3			
50			50	1.64	25.0		22.5			
55			55	1.49	27.5		24.8			
60			60	1.37	30.0		27.0			
65			65	1.26	32.5		29.3			
70			70	1.17	35.0		31.5			
75			75	1.10	37.5		33.8			
80			80	1.03	40.0		36.0			
90			90	0.91	45.0		40.5			
100			100	0.82	50.0		45.0			
110			110	0.75	55.0		49.5			
125			125	0.66	62.5		56.3			
150	150	0.55	75.0	67.5						
175	175	0.47	87.5	78.8						
200	200	0.41	100.0	90.0						



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					變形量(mm) Deflection	荷重 Kgf(N) Load	變形量(mm) Deflection	荷重 Kgf(N) Load	變形量(mm) Deflection	荷重 Kgf(N) Load
DWR 32 × 40	32.0	21.0	40	2.56	20.0	51.0 (500.1)	18.0	46.0 (451.1)	16.0	41.0 (402.1)
45			45	2.27	22.5		20.3		18.0	
50			50	2.04	25.0		22.5		20.0	
60			60	1.70	30.0		27.0		24.0	
70			70	1.46	35.0		31.5		28.0	
80			80	1.28	40.0		36.0		32.0	
90			90	1.14	45.0		40.5		36.0	
100			100	1.02	50.0		45.0		40.0	
110			110	0.93	55.0		49.5		44.0	
125			125	0.82	62.5		56.3		50.0	
150			150	0.68	75.0		67.5		60.0	
175			175	0.58	87.5		78.8		70.0	
200			200	0.51	100.0		90.0		80.0	
250			250	0.41	125.0		112.5		100.0	
300			300	0.34	150.0		135.0		120.0	
DWR 39 × 40			39.0	26.0	40		2.78		20.0	
45	45	2.47			22.5	20.3	18.0			
50	50	2.22			25.0	22.5	20.0			
60	60	1.85			30.0	27.0	24.0			
70	70	1.59			35.0	31.5	28.0			
80	80	1.39			40.0	36.0	32.0			
90	90	1.23			45.0	40.5	36.0			
100	100	1.11			50.0	45.0	40.0			
110	110	1.01			55.0	49.5	44.0			
125	125	0.89			62.5	56.3	50.0			
150	150	0.74			75.0	67.5	60.0			
175	175	0.63			87.5	78.8	70.0			
200	200	0.56			100.0	90.0	80.0			
250	250	0.44			125.0	112.5	100.0			
300	300	0.37			150.0	135.0	120.0			
DWR 46 × 50	46.0	32.0			50	2.49	25.0	62.0 (608.0)	22.5	56.0 (549.2)
60			60	2.07	30.0	27.0	24.0			
70			70	1.78	35.0	31.5	28.0			
80			80	1.56	40.0	36.0	32.0			
90			90	1.38	45.0	40.5	36.0			
100			100	1.24	50.0	45.0	40.0			
110			110	1.13	55.0	49.5	44.0			
125			125	1.00	62.5	56.3	50.0			
150			150	0.83	75.0	67.5	60.0			
175			175	0.71	87.5	78.8	70.0			
200			200	0.62	100.0	90.0	80.0			
250			250	0.50	125.0	112.5	100.0			
300			300	0.41	150.0	135.0	120.0			



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					變形量(mm) Deflection	荷重 Kg(fN) Load	變形量(mm) Deflection	荷重 Kg(fN) Load	變形量(mm) Deflection	荷重 Kg(fN) Load
DWY 14.5×20	14.5	9.0	20	1.89	10.0	19.0 (186.3)	9.0	17.0 (166.7)	8.0	15.0 (147.1)
25			25	1.51	12.5		11.3		10.0	
30			30	1.26	15.0		13.5		12.0	
35			35	1.08	17.5		15.8		14.0	
40			40	0.94	20.0		18.0		16.0	
45			45	0.84	22.5		20.3		18.0	
50			50	0.76	25.0		22.5		20.0	
55			55	0.69	27.5		24.8		22.0	
60			60	0.63	30.0		27.0		24.0	
65			65	0.58	32.5		29.3		26.0	
70			70	0.54	35.0		31.5		28.0	
75			75	0.50	37.5		33.8		30.0	
80			80	0.47	40.0		36.0		32.0	
90			90	0.42	45.0		40.5		36.0	
100			100	0.38	50.0		45.0		40.0	
125	125	0.30	62.5	56.3	50.0					
DWY 17×25	17.0	11.0	25	2.22	12.5	28.0 (274.6)	11.3	25.0 (245.2)	10.0	22.0 (215.7)
30			30	1.85	15.0		13.5		12.0	
35			35	1.59	17.5		15.8		14.0	
40			40	1.39	20.0		18.0		16.0	
45			45	1.23	22.5		20.3		18.0	
50			50	1.11	25.0		22.5		20.0	
55			55	1.01	27.5		24.8		22.0	
60			60	0.93	30.0		27.0		24.0	
65			65	0.85	32.5		29.3		26.0	
70			70	0.79	35.0		31.5		28.0	
75			75	0.74	37.5		33.8		30.0	
80			80	0.69	40.0		36.0		32.0	
90			90	0.62	45.0		40.5		36.0	
100			100	0.56	50.0		45.0		40.0	
125			125	0.44	62.5		56.3		50.0	
150	150	0.37	75.0	67.5	60.0					



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					變形量(mm) Deflection	荷重 Kgf(N) Load	變形量(mm) Deflection	荷重 Kgf(N) Load	變形量(mm) Deflection	荷重 Kgf(N) Load
35	21.0	13.0	35	2.03	17.5	36.0 (353.0)	15.8	32.0 (313.8)	14.0	29.0 (284.4)
40			40	1.78	20.0		18.0		16.0	
45			45	1.58	22.5		20.3		18.0	
50			50	1.42	25.0		22.5		20.0	
55			55	1.29	27.5		24.8		22.0	
60			60	1.19	30.0		27.0		24.0	
65			65	1.09	32.5		29.3		26.0	
70			70	1.02	35.0		31.5		28.0	
75			75	0.95	37.5		33.8		30.0	
80			80	0.89	40.0		36.0		32.0	
90			90	0.79	45.0		40.5		36.0	
100			100	0.71	50.0		45.0		40.0	
125			125	0.57	62.5		56.3		50.0	
150			150	0.47	75.0		67.5		60.0	
DWY 26×30	26.0	16.5	30	3.56	15.0	53.0 (519.8)	13.5	48.0 (470.0)	12.0	42.0 (411.9)
35			35	3.05	17.5		15.8		14.0	
40			40	2.67	20.0		18.0		16.0	
45			45	2.37	22.5		20.3		18.0	
50			50	2.13	25.0		22.5		20.0	
55			55	1.94	27.5		24.8		22.0	
60			60	1.78	30.0		27.0		24.0	
65			65	1.64	32.5		29.3		26.0	
70			70	1.52	35.0		31.5		28.0	
75			75	1.42	37.5		33.8		30.0	
80			80	1.33	40.0		36.0		32.0	
90			90	1.19	45.0		40.5		36.0	
100			100	1.07	50.0		45.0		40.0	
110			110	0.97	55.0		49.5		44.0	
125			125	0.85	62.5		56.3		50.0	
150			150	0.71	75.0		67.5		60.0	
175	175	0.61	87.5	78.8	70.0					
200	200	0.53	100.0	90.0	80.0					



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					變形量(mm) Deflection	荷重 Kgf(N) Load	變形量(mm) Deflection	荷重 Kgf(N) Load	變形量(mm) Deflection	荷重 Kgf(N) Load
DWY 32×40	32.0	21.0	40	3.56	20.0	71.0 (696.3)	18.0	64.0 (627.6)	16.0	57.0 (559.0)
45			45	3.16	22.5		20.3			
50			50	2.84	25.0		22.5			
60			60	2.37	30.0		27.0			
70			70	2.03	35.0		31.5			
80			80	1.78	40.0		36.0			
90			90	1.58	45.0		40.5			
100			100	1.42	50.0		45.0			
110			110	1.29	55.0		49.5			
125			125	1.14	62.5		56.3			
150			150	0.95	75.0		67.5			
175			175	0.81	87.5		78.8			
200			200	0.71	100.0		90.0			
250			250	0.57	125.0		112.5			
300			300	0.47	150.0		135.0			
DWY 39×40			39.0	26.0	40		4.67		20.0	
45	45	4.15			22.5	20.3				
50	50	3.73			25.0	22.5				
60	60	3.11			30.0	27.0				
70	70	2.67			35.0	31.5				
80	80	2.33			40.0	36.0				
90	90	2.07			45.0	40.5				
100	100	1.87			50.0	45.0				
110	110	1.70			55.0	49.5				
125	125	1.49			62.5	56.3				
150	150	1.24			75.0	67.5				
175	175	1.07			87.5	78.8				
200	200	0.93			100.0	90.0				
250	250	0.75			125.0	112.5				
300	300	0.62			150.0	135.0				



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					變形量(mm) Deflection	荷重 Kgf(N) Load	變形量(mm) Deflection	荷重 Kgf(N) Load	變形量(mm) Deflection	荷重 Kgf(N) Load
DWY 46×50	46.0	32.0	50	4.98	25.0	124.0 (1,216)	22.5	112.0 (1,098)	20.0	99.0 (970.9)
60			60	4.15	30.0		27.0		24.0	
70			70	3.56	35.0		31.5		28.0	
80			80	3.11	40.0		36.0		32.0	
90			90	2.77	45.0		40.5		36.0	
100			100	2.49	50.0		45.0		40.0	
110			110	2.26	55.0		49.5		44.0	
125			125	1.99	62.5		56.3		50.0	
150			150	1.66	75.0		67.5		60.0	
175			175	1.42	87.5		78.8		70.0	
200			200	1.24	100.0		90.0		80.0	
250			250	1.00	125.0		112.5		100.0	
300			300	0.83	150.0		135.0		120.0	