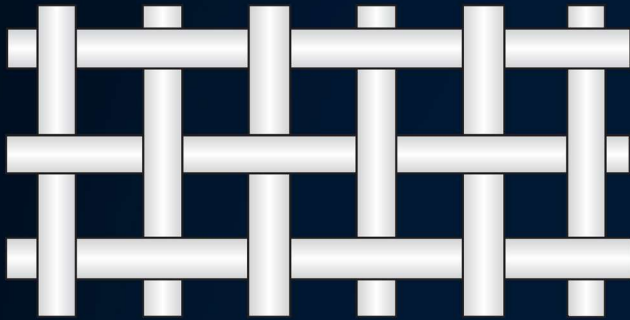


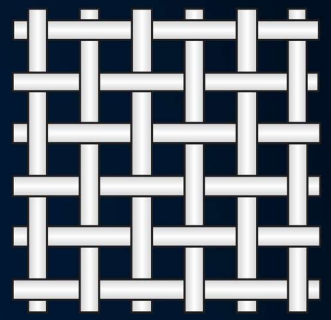
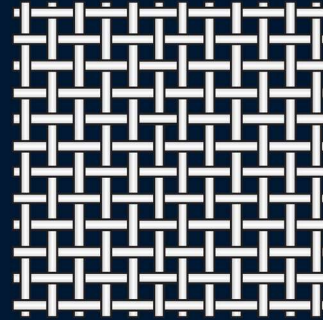
Polyester Mesh Specification

Doyan has become the standard of screen printing. With over 19-year manufacturing experience, our SMT aluminum frames can keep in perfect shape when mesh is stretched to optimal printing tensions for the mesh being used. We utilize large-scale stretching machine controlled by PLC and frequency conversion, which enable our workers to operate and monitor manufacturing process. With the integrated auto grips, the machine can efficiently solve the unbalanced tension problem caused by gaps between grips or mesh slipping. Frames with mesh will be clamped firmly. Multiple meshed frames can be manufactured at the same time.

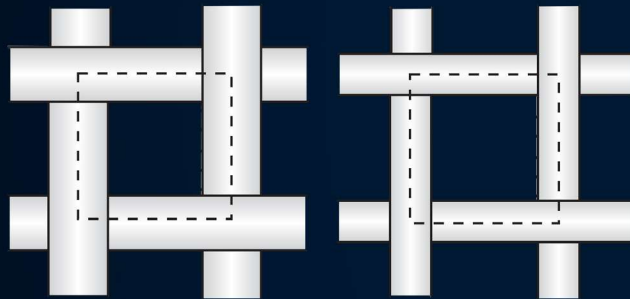
Overview



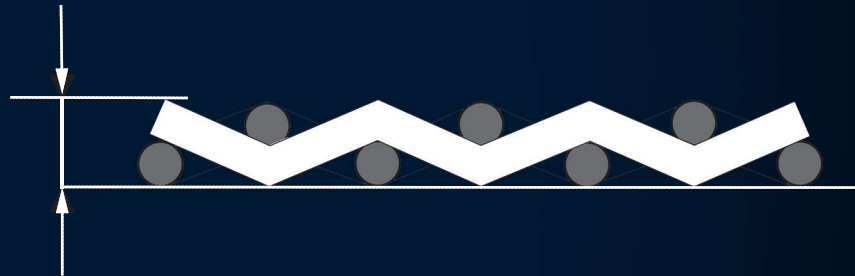
Thread diameter is one wire's diameter



Mesh count identifies the number of wires per inch



Open area describes the total open area in terms of mesh apertures across the entire surface of mesh.



Mesh thickness is determined by the wire-diameter and the weaving process.

Doyan chooses polyester which is the best resin material for the mesh on aluminum frame. It is rated for excellent biological resistance, good resistance to mineral acids, fair resistance to organic acids. This resin has very good UV resistance as well. Weft or filling threads run at right angles across the width of a fabric, resulting in a square mesh opening. Therefore, aluminum meshed frames are recommended for assemblers where quality is paramount. Superior foil tension is achieved through the use of pre-stretched polyester mesh attached to rigid aluminum frames, which leads to consistent repeatability, uncompromising print quality and no foil distortion for dense aperture.

Specification							
Mesh Count		Thread Diameter	Color	Mesh Opening	Open Area	Thickness	Recommended Tension
(per inch)	(per cm)	(microns)		(microns)	(%)	(um)	(N/cm)
25Mesh	10T	250	white	740	53	465	60
30Mesh	12T	150	white	522	47	485	62
40Mesh	16T	100	white	485	70	285	48
40Mesh	16T	200	white	435	47	420	48
50Mesh	20T	100	white	400	64	200	50
50Mesh	20T	150	white	340	46	280	52
60Mesh	24T	140	white	316	58	190	48
60Mesh	24T	120	white	300	51	210	42
70Mesh	27T	100	white	277	60	150	46
80Mesh	32T	64	white	245	61	110	28
80Mesh	32T	70	white	245	61	125	28
80Mesh	32T	100	white	200	43	160	42
80Mesh	32T	120	white	190	38	205	42
86Mesh	34T	100	white	210	45	165	35
90Mesh	36T	100	white	178	41	175	42
90Mesh	36T	120	white	145	26	215	48
100Mesh	39T	55	white	201	62	100	30
100Mesh	39T	80	white	172	46	142	42
110Mesh	43T	80	white	150	41	130	35
120Mesh	48T	70	white	135	41	115	32
135Mesh	53T	55	white	105	33	114	38
137Mesh	54T	64	white	115	39	102	30
150Mesh	59T	55	white	100	40	93	32
155Mesh	61T	64	white	90	32	106	32
163Mesh	64T	55	white	101	42	105	30
163Mesh	64T	64	white	90	32	106	35
173Mesh	68T	55	white	80	30	90	28
180Mesh	72T	48	white	94	46	80	32
180Mesh	72T	55	white	75	29	92	32
180Mesh	72T	55	yellow	75	29	92	32
195Mesh	77T	48	white	78	30	84	28
195Mesh	77T	48	yellow	78	30	84	28
195Mesh	77T	55	white	70	25	88	28
195Mesh	77T	55	yellow	70	25	88	28
200Mesh	80T	48	white	78	30	84	28
200Mesh	80T	48	yellow	78	30	84	28
200Mesh	80T	55	white	70	25	88	28
200Mesh	80T	55	yellow	70	25	88	28

Mesh Count		Thread Diameter	Color	Mesh Opening	Open Area	Thickness	Recommended Tension
(per inch)	(per cm)	(microns)		(microns)	(%)	(um)	(N/cm)
230Mesh	90T	48	white	55	25	78	33
230Mesh	90T	48	yellow	55	25	78	33
255Mesh	100T	40	white	58	32	65	27
255Mesh	100T	40	yellow	58	32	65	27
280Mesh	110T	40	white	48	27	65	30
280Mesh	110T	40	yellow	48	27	65	30
305Mesh	120T	34	white	45	30	55	27
305Mesh	120T	34	yellow	45	30	55	27
305Mesh	120T	40	white	40	20	55	26
305Mesh	120T	40	yellow	40	20	55	26
355Mesh	140T	31	white	35	26	48	25
355Mesh	140T	31	yellow	35	26	48	25
355Mesh	140T	34	white	30	20	55	30
355Mesh	140T	34	yellow	30	20	55	30
380Mesh	150T	34	white	30	20	69	30
380Mesh	150T	34	yellow	30	20	69	30
380Mesh	150T	31	white	32	23	47	26
380Mesh	150T	31	yellow	32	23	47	26
420Mesh	165T	31	white	25	17	49	28
420Mesh	165T	31	yellow	25	17	49	28

Note: The common mesh count and thread diameter are 24T/140 μ m, 32T/120 μ m and 36T/100 μ m. The most common mesh count and diameter is 24T/140 μ m.