

High modulus polyester monofilament mesh
for technical screen printing applications



Thread type

L : Conjugated Polyester Monofilament (27µmφ - 30 µmφ)
UX: Super High Modulus Polyester Monofilament (33µmφ - 45 µmφ)
EX: High Modulus Polyester Monofilament

NBC Meshtec inc.

Category	Mesh code					Mesh Count		Weaving	Thread diameter µm	Mesh thickness		Mesh opening µm	Open Area %	Theoretical ink volume	
	Thread type	Mesh/cm	Thread dia.	Mesh/inch	Weaving	Tolerance ±3%				115-155cm µm	165cm & wider µm			115-155cm cm ³ /m ²	165cm & wider cm ³ /m ²
						/cm	/inch								
α_series	L-	200	-024/	508	PW	200	508	1:1 PW	24	36 ±2µm	N/A	24	23	8.3	N/A
α_series	L-	200	-027/	508	TW	200	508	2:2 TW	27	50 ±3µm	N/A	22	19	9.7	N/A
α_series	L-	180	-027/	460	PW	180	460	1:1 PW	27	41 ±2µm	42 ±3µm	24	19	7.7	7.9
α_series	L-	180	-030/	460	TW	180	460	2:2 TW	30	55 ±3µm	56 ±4µm	23	17	9.5	N/A
α_series	L-	165	-027/	420	PW	165	420	1:1 PW	27	40 ±2µm	41 ±3µm	30	25	9.8	10.1
α_series	L-	165	-030/	420	PW	165	420	1:1 PW	30	45 ±2µm	46 ±3µm	25	18	8.0	8.2
α_series	UX	165	-033/	420	TW	165	420	2:2 TW	33	60 ±3µm	60 ±3µm	24	16	9.4	9.4
α_series	L-	150	-027/	380	PW	150	380	1:1 PW	27	40 ±2µm	41 ±3µm	38	32	12.9	13.3
α_series	L-	150	-030/	380	PW	150	380	1:1 PW	30	45 ±2µm	46 ±3µm	33	24	11.0	11.2
α_series	UX	150	-033/	380	PW	150	380	1:1 PW	33	48 ±2µm	49 ±3µm	27	16	7.8	8.0
α_series	UX	150	-035/	380	TW	150	380	2:2 TW	35	64 ±3µm	64 ±3µm	30	20	12.9	12.9
α_series	L-	140	-027/	355	PW	140	355	1:1 PW	27	40 ±2µm	41 ±3µm	44	38	15.1	15.5
α_series	L-	140	-030/	355	PW	140	355	1:1 PW	30	45 ±2µm	46 ±3µm	39	30	13.4	13.7
α_series	UX	140	-035/	355	PW	140	355	1:1 PW	35	53 ±2µm	54 ±3µm	32	19	10.3	10.5
α_series	UX	140	-035/	355	TW	140	355	2:1 TW	35	61 ±3µm	61 ±3µm	34	23	13.8	13.8
α_series	L-	130	-027/	330	PW	131	334	1:1 PW	27	40 ±2µm	41 ±3µm	49	42	16.6	17.0
α_series	L-	130	-030/	330	PW	131	334	1:1 PW	30	45 ±2µm	46 ±3µm	44	33	15.1	15.4
α_series	UX	130	-035/	330	PW	130	330	1:1 PW	35	53 ±2µm	54 ±3µm	38	24	12.9	13.2
α_series	L-	124	-027/	315	PW	124	315	1:1 PW	27	40 ±2µm	41 ±3µm	54	45	17.9	18.4
α_series	L-	124	-030/	315	PW	124	315	1:1 PW	30	45 ±2µm	46 ±3µm	49	37	16.6	17.0
α_series	L-	120	-030/	305	PW	120	305	1:1 PW	30	46 ±2µm	46 ±3µm	53	41	18.6	18.6
α_series	UX	120	-033/	305	PW	120	305	1:1 PW	33	50 ±2µm	51 ±3µm	47	32	15.9	16.2
α_series	UX	120	-035/	305	PW	120	305	1:1 PW	35	53 ±2µm	54 ±3µm	45	29	15.5	15.8
α_series	UX	120	-040/	305	PW	118	300	1:1 PW	40	62 ±2µm	63 ±3µm	37	19	11.8	12.0
α_series	UX	110	-035/	280	PW	110	280	1:1 PW	35	53 ±2µm	54 ±3µm	53	34	18.1	18.4
α_series	UX	106	-040/	270	PW	106	270	1:1 PW	40	60 ±2µm	61 ±3µm	49	27	16.3	16.6
α_series	UX	100	-035/	255	PW	100	255	1:1 PW	35	53 ±2µm	54 ±3µm	64	41	21.9	22.3
α_series	UX	100	-040/	255	PW	100	255	1:1 PW	40	60 ±2µm	61 ±3µm	56	32	19.0	19.3
*)	EX	100	-048/	255	PW	100	255	1:1 PW	48	76 ±2µm	76 ±3µm	45	20	15.5	15.5
α_series	UX	90	-040/	230	PW	90	230	1:1 PW	40	60 ±2µm	61 ±3µm	67	37	22.1	22.5
α_series	UX	90	-045/	230	PW	90	230	1:1 PW	45	68 ±2µm	69 ±3µm	60	30	20.1	20.4
*)	EX	90	-048/	230	PW	88	225	1:1 PW	48	75 ±2µm	79 ±4µm	58	26	19.8	20.9
*)	EX	90	-055/	230	TW	88	225	2:1 TW	55	91 ±4µm	95 ±5µm	54	23	20.8	21.7
*)	EX	90	-071/	230	TW	88	225	3:1 TW	71	139 ±10µm	N/A	38	11	15.7	N/A
α_series	UX	90	-33x2	230	PW	90	230	1:1 PW	33	57 ±3µm	N/A	40	13	7.5	N/A
α_series	UX	79	-045/	200	PW	79	200	1:1 PW	45	68 ±2µm	69 ±3µm	81	41	27.7	28.1
*)	EX	79	-048/	200	PW	79	200	1:1 PW	48	75 ±2µm	79 ±4µm	75	35	26.2	27.6
*)	EX	79	-055/	200	PW	79	200	1:1 PW	55	88 ±4µm	88 ±4µm	69	30	26.0	26.0
α_series	UX	71	-045/	180	PW	71	180	1:1 PW	45	70 ±2µm	72 ±3µm	95	45	31.7	32.6
*)	EX	71	-048/	180	PW	71	180	1:1 PW	48	76 ±2µm	80 ±4µm	91	42	31.6	33.3

The above specification may be changed for quality improvement without notice.
*α_EX SCREEN upgrade is also possible upon request.
Please ask your sales rep or supplier for availability and more information

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	Thread type	Mesh/cm	Thread dia. Mesh/inch	Weaving	Tolerance ±3%				115-155cm µm	165cm & wider µm			115-155cm cm ³ /m ²	165cm & wider cm ³ /m ²
					/cm	/inch								
*)	EX	71 -055/	180	PW	71	180	1:1 PW	55	88 ±4µm	88 ±4µm	85	36	31.9	31.9
*)	EX	71 -063/	180	PW	71	180	1:1 PW	63	98 ±5µm	N/A	71	25	24.8	N/A
*)	EX	63 -048/	160	PW	63	160	1:1 PW	48	80 ±4µm	80 ±4µm	110	48	38.4	38.4
*)	EX	63 -063/	160	PW	63	160	1:1 PW	63	105 ±5µm	105 ±5µm	93	34	36.0	36.0
*)	EX	63 -071/	160	PW	63	160	1:1 PW	71	116 ±6µm	116 ±6µm	79	25	28.7	28.7
α_series	UX	59 -045/	150	PW	59	150	1:1 PW	45	72 ±2µm	74 ±4µm	124	54	38.6	39.7
*)	EX	59 -048/	150	PW	59	150	1:1 PW	48	76 ±2µm	80 ±4µm	120	50	38.2	40.2
*)	EX	59 -055/	150	PW	59	150	1:1 PW	55	88 ±4µm	88 ±4µm	114	45	39.9	39.9
*)	EX	59 -063/	150	PW	59	150	1:1 PW	63	105 ±5µm	105 ±5µm	104	38	39.9	39.9
*)	EX	59 -071/	150	PW	59	150	1:1 PW	71	116 ±6µm	116 ±6µm	91	29	33.5	33.5
*)	EX	55 -063/	140	PW	55	140	1:1 PW	63	105 ±5µm	105 ±5µm	116	41	43.2	43.2
*)	EX	55 -080/	140	PW	55	140	1:1 PW	80	140 ±7µm	140 ±7µm	97	29	40.0	40.0
α_series	UX	53 -045/	135	PW	53	135	1:1 PW	45	73 ±4µm	74 ±4µm	143	58	42.2	42.7
*)	EX	53 -048/	135	PW	53	135	1:1 PW	48	79 ±4µm	79 ±4µm	139	55	43.1	43.1
*)	EX	53 -055/	135	PW	53	135	1:1 PW	55	95 ±5µm	95 ±5µm	133	50	47.5	47.5
*)	EX	49 -071/	125	PW	49	125	1:1 PW	71	116 ±6µm	116 ±6µm	130	41	47.6	47.6
α_series	UX	47 -045/	120	PW	47	120	1:1 PW	45	73 ±4µm	74 ±4µm	167	62	45.4	46.1
*)	EX	47 -048/	120	PW	47	120	1:1 PW	48	80 ±4µm	80 ±4µm	163	59	47.4	47.4
*)	EX	47 -055/	120	PW	47	120	1:1 PW	55	95 ±5µm	95 ±5µm	157	55	52.3	52.3
*)	EX	47 -063/	120	PW	47	120	1:1 PW	63	105 ±5µm	105 ±5µm	149	50	52.0	52.0
*)	EX	47 -080/	120	PW	47	120	1:1 PW	80	137 ±7µm	137 ±7µm	130	38	51.4	51.4
*)	EX	43 -080/	110	PW	43	110	1:1 PW	80	132 ±7µm	132 ±7µm	150	42	55.7	55.7
*)	EX	39 -055/	100	PW	39	100	1:1 PW	55	95 ±5µm	95 ±5µm	199	61	58.3	58.3
*)	EX	39 -071/	100	PW	39	100	1:1 PW	71	122 ±6µm	122 ±6µm	182	51	62.6	62.6
*)	EX	39 -080/	100	PW	39	100	1:1 PW	80	134 ±7µm	134 ±7µm	174	47	62.9	62.9
*)	EX	35 -071/	90	PW	35	90	1:1 PW	71	125 ±6µm	125 ±6µm	210	55	69.2	69.2
*)	EX	35 -080/	90	PW	35	90	1:1 PW	80	137 ±7µm	137 ±7µm	202	51	70.2	70.2
*)	EX	31 -055/	80	PW	31	80	1:1 PW	55	95 ±5µm	95 ±5µm	263	69	65.2	65.2
*)	EX	31 -071/	80	PW	31	80	1:1 PW	71	125 ±6µm	125 ±6µm	246	60	75.0	75.0
*)	EX	31 -100/	80	PW	31	80	1:1 PW	100	170 ±9µm	170 ±9µm	218	47	80.1	80.1
*)	EX	27 -055/	70	PW	27	70	1:1 PW	55	95 ±5µm	95 ±5µm	308	72	68.4	68.4
*)	EX	27 -071/	70	PW	27	70	1:1 PW	71	125 ±6µm	125 ±6µm	291	64	80.4	80.4
*)	EX	27 -125/	70	PW	27	70	1:1 PW	125	240 ±24µm	240 ±24µm	238	43	103.3	103.3
*)	EX	24 -125/	60	PW	24	60	1:1 PW	125	230 ±23µm	230 ±23µm	298	50	114.0	114.0
*)	EX	24 -150/	60	PW	24	60	1:1 PW	150	260 ±26µm	260 ±26µm	271	41	106.5	106.5
*)	EX	20 -200/	50	PW	20	50	1:1 PW	200	370 ±37µm	370 ±37µm	308	37	136.0	136.0
*)	EX	16 -200/	40	PW	16	40	1:1 PW	200	370 ±37µm	370 ±37µm	435	47	173.6	173.6
*)	EX	12 -150/	30	PW	12	30	1:1 PW	150	290 ±29µm	290 ±29µm	696	68	196.0	196.0
*)	EX	12 -250/	30	PW	12	30	1:1 PW	250	480 ±48µm	480 ±48µm	597	50	238.7	238.7
*)	EX	10 -300/	25	PW	10	25	1:1 PW	300	600 ±60µm	600 ±60µm	547	29	173.9	173.9

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