

product solution

NBC Beta Series Polyester Monofilament Mesh

Beta (β) Series polyester monofilament mesh is designed for standard screen printing applications such as textile, glass, and ceramic tile printing. It encompasses a range of mesh specifications, all using NBC's *EX Screen*, a high modulus polyester monofilament.



Beta Series mesh benefits from an optimized production process, which allows NBC to pass on cost savings to the customer. However, it features the same NBC quality as Alpha Series and other NBC products, produced under the same quality control standards. As a result, Beta Series mesh delivers high dimensional accuracy and tension stability, at an affordable cost.

EX Screen is NBC's high modulus polyester mesh that delivers improved productivity and repeatability to your screen printing process through superior physical strength. EX Screen is NBC's standard for mesh counts with a thread diameter ranging from 35 to 80 microns.

FEATURES

- High dimensional accuracy
- Excellent tension stability

ITEM DETAILS

MESH CODE	MESH COUNT /in (±3)	MESH COUNT /cm (±3)	WEAVE TYPE	THREAD DIAMETER μm	MESH THICKNESS μm (45-61")	MESH THICKNESS μm (65"+)	MESH OPENING μm	OPEN AREA (%)	THEORETICAL INK VOLUME cm ³ /m ² (45-61")	THEORETICAL INK VOLUME cm ³ /m ² (65"+)
EX305 -035 PW	305	120	1:1 PW	35	53±2μm	54±3μm	45	29	14.9	15.2
EX305 -040 PW	300	118	1:1 PW	40	62±2μm	63±3μm	37	19	11.8	12
EX280 -035 PW	280	110	1:1 PW	35	53±2μm	54±3μm	53	34	17.4	17.8
EX270 -040 PW	270	106	1:1 PW	40	60±2μm	61±3μm	49	27	16.3	16.6
EX255 -040 PW	255	100	1:1 PW	40	60±2μm	61±3μm	56	32	19	19.3
EX230 -048 PW	225	88	1:1 PW	48	75±3μm	76±3μm	58	26	19.8	20.1
EX200 -055 PW	200	79	1:1 PW	55	88±4μm	88±4μm	69	30	26	26

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EX200 -048 PW	200	79	1:1 PW	48	76±3μm	80±4μm	75	35	26.5	27.9
EX180 -055PW	180	71	1:1 PW	55	88±4μm	88±4μm	85	36	31.9	31.9
EX180 -048 PW	180	71	1:1 PW	48	76±3μm	80±4μm	91	42	31.6	33.3
EX160 -063 PW	160	63	1:1 PW	63	105±5μm	105±5μm	93	34	36	36
EX160 -048 PW	160	63	1:1 PW	48	80±4μm	80±4μm	110	48	38.4	38.4
EX150 -048 PW	150	59	1:1 PW	48	77±3μm	79±4μm	120	50	38.7	39.7
EX140 -063 PW	140	55	1:1 PW	63	105±5μm	105±5μm	116	41	43.2	43.2
EX135 -055 PW	135	53	1:1 PW	55	95±5μm	95±5μm	133	50	47.5	47.5
EX135 -048 PW	135	53	1:1 PW	48	79±4μm	79±4μm	139	55	43.1	43.1
EX125 -071 PW	125	49	1:1 PW	71	116±6μm	116±6μm	130	41	47.6	47.6
EX120 -048 PW	120	47	1:1 PW	48	80±4μm	80±4μm	163	59	47.4	47.4
EX110 -080 PW	110	43	1:1 PW	80	132±7μm	132±7μm	150	42	55.7	55.7

Mesh Count: Number of threads per inch or centimeter

Weave Type: Plain Weave (PW) or Twill Weave (TW)

Thread Diameter: The diameter of each thread before weaving

Mesh Thickness: The average thickness of the woven mesh

Mesh Opening: The distance between adjacent threads

Open Area: The ratio (%) of the open area to the thread area within a woven mesh

Theoretical Ink Volume: The amount of ink the mesh should be able to hold/transfer, given as the ratio (%) of open area × mesh thickness to the thread area