NBC MESHTEC AMERICAS
nbcmeshtec.com
info@nbcmeshtec.com
US (800)235-5056
Int'l (630)293-5454
Fax (630)293-5647

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 cm³/m² (45-61")	THEORETICAL INK VOLUME cm³/m² (65"+)
EX355 -035 PW	355	140	1:1 PW	35	53±2µm	54±3µm	32	19	10.3	10.5
EX330 -035 PW	330	130	1:1 PW	35	53±2µm	54±3µm	38	24	12.9	13.2
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

Information and pricing current as of 1/5/2023

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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
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

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