Ulano Capillary Film Cheat Sheet: CDF Vision, EZ-Film

Pick the film thickness by mesh count, adhere it, and find a starting exposure.

CDF Vision: thickness by mesh (Ulano TDS)

Film	Threads/cm	Threads/inch	4000 W metal halide, 40 in
Vision-15	165 or more	420+	25 sec
Vision-18	120-165	305-420	30 sec
Vision-20	120-150	305-380	33 sec
Vision-25	100-150	255-380	42 sec
Vision-30	90-120	230-305	55 sec
Vision-35	70-110	180-280	85 sec
Vision-50	33-77	86-196	2 min

Other Ulano capillary films

Film	Chemistry	Mesh / note
EZ-Film 30	SBQ, pink, 30 micron	90-165/cm (230-419/in); water or QTX adhered
EZ 50 Orange	SBQ, orange, 50 micron	33-77/cm; sheets about 15 x 17 in and 17 x 24 in, 50 per box
CDF Vision Plus 18/20	Diazo dual cure	120-165/cm (305-420/in)
CDF Vision Plus 25	Diazo dual cure, violet	88-130/cm (225-330/in)
CDF/QT Thick Film	SBQ, pink	100, 150, 200, 250, 300, 400 micron; adhere with water or QTX

Adhere and process (CDF Vision TDS)

1	Degrease the mesh; Magic Mesh Prep or CDF Mesh Prep No. 25 for even water retention (use Prep 25 within an hour).
2	Film emulsion side up, wet screen printing side down on it, one squeegee stroke, wipe off excess water.
3	Dry at room temperature (dehumidify; filtered air under 104 F if humid). Remove backing just before exposure.
4	Base exposure x variable factors, then step wedge or ExpoCheck.
5	Wash out from the printing side with pressure, finish from the squeegee side; blot with newsprint, dry.
6	Reclaim with the mildest ink wash: strong screen openers can lock the film.

Good to know

Storage	Under 75 F, 20-40% RH; 18 month shelf life; adhered unexposed screens keep up to 2 weeks cool, dark, dry
EZ-Film with QTX	Direct/indirect method: add 50% to base exposure
Resolution limit	Cannot resolve a line finer than mesh plus stencil thickness
Fluorescent tubes	40 W black light at 4 in: Vision-15 5 min up to Vision-30 11 min; 35 and 50 not recommended

Sources: Ulano CDF Vision TDS and Base Exposure Table; EZ-Film 30 TDS; ulano.com capillary film pages (cdf-vision, cdf-vision-plus, cdf-qt-thick-film, ez-50-orange). Reference only: Ulano's current data sheet governs. Data sheets: bucketsofink.com/page/safety-data-sheets.