Distortion Calculation Factors for ThermoFlex Mid

Distortion Calculation Factors for ThermoFlex Mid

$$D.F.= \frac{\text{Expose diameter x 100}}{\text{Expose diameter} - (2 \text{ x soft thickness})}$$

1. Expose diameter = 328mm + (2 x plate thickness)
2. Soft thickness = plate thickness - 0.127 mm (0.005”)
3. D.F. = Scale factor (has to be inserted in the Scale parameter in the Expose dialog in the around the Drum direction)

Plate thickness [in]	0.030	0.045	0.067	0.100	0.107	0.112	0.125
Plate thickness [mm]	0.762	1.14	1.7	2.54	2.72	2.84	3.18
D.F.	100.387	100.619	100.959	101.470	101.578	101.656	101.857

$$Lf = L \times \frac{D.F}{100}$$

1. L = Image length (on flat plate) in the around the drum direction.
2. Lf = The file length in the around the drum direction.

Sample

Plate thickness: 1.7 mm

Image length: 400 mm

$$D.F. = \frac{(328 + 2 \times 1.7)\ 100}{(328 + 2 \times 1.7) - 2(1.7 - 0.127)} = 100.959$$

$$Lf = 400 \times \frac{100.959}{100} = 403.84 \text{ mm}$$

Updated 05 Jun 03

creo