

Index numbers for screen dot enlargement

In order to define good quality printing results according to the state of engineering in Central Europe, the following index numbers have been developed:

1. On an average, screen dot enlargement for coated, pick-resistant papers, screen dot enlargement should not exceed one tenth of the solid. Solids with a standard inking stay within the following limits (measured with Macbeth reflection densitometers):

1.80 0.18	1.50 0.15	1.50 0.15	1.00 0.10
1.60 0.16	1.30 0.13	1.30 0.13	0.90 0.09
			
Black	Magenta	Cyan	Yellow

2. As regards uncoated paper, dot enlargement should on an average basis, not exceed a sixth of the solid; solids with normal inking keep within the following limits (measured with Macbeth reflection densitometers):

1.50 0.20	1.20 0.20	1.20 0.20	0.90 0.15
1.30 0.18	1.00 0.16	1.00 0.16	0.80 0.12
			
Black	Magenta	Cyan	Yellow

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Screen dot enlargements of less than 0.10 (10%) with normal inking either represent an extremely good printing result or, else, they are a result of too sharpened plates:

1.35 0.08


Dot enlargements equivalent to 0.20 and above in working with coated paper can be explained by an incorrect printing pressure, inadequate printing inks, an excessive amount of ink compounds, low-pigment paper, inappropriate blankets or defective plates.

1.20 0.25	1.30 0.30
	