

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

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	1.10-0.30
	