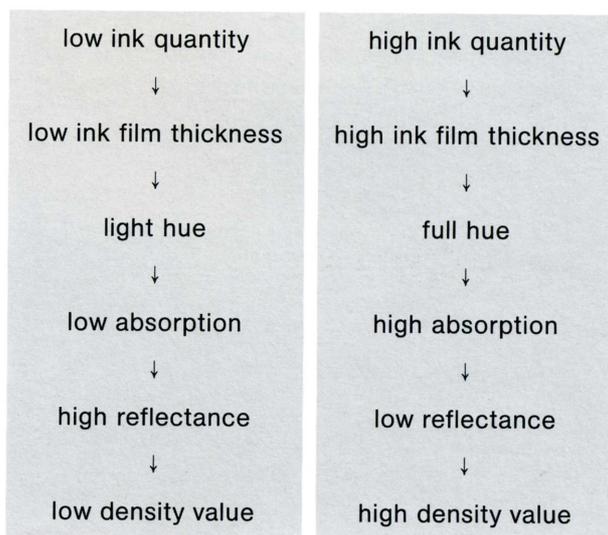


The correlation between ink film thickness and ink density

There is a close correlation between ink film thickness and ink density. The absorption behaviour of an ink film depends on the hue, the ink film thickness, and on the nature as well as the concentration of the printing ink pigmentation. Since, however, the colour location (hue) for process colours is standardized, and the pigment concentration for these colours is also specified within a certain framework, only the ink film thickness remains as a variable which can be influenced by the pressman.

Fig. 13 illustrates the correlation between ink film thickness and ink density (the ink film thickness is not drawn in proportion). Basically it can be said:



From a certain film thickness upwards, however, there is hardly any further increase in the ink density. Even if the measurement were to be performed in the full ink container, the density would not be any higher. The printing ink will always reflect a certain amount of light, so that an infinite density value cannot exist.