

PAPER CURL TESTER

CATALOGUE NO.: GEC-P40124

Paper Curl Tester is used to measure the Degree of curl when the paper sample exposed to water. Paper curl can be defined as a systematic deviation of a sheet from a flat form. It results from the release of stresses that are introduced into the sheet during manufacture and subsequent use.

Paper curl has been a persistent quality issue and is increasingly important for paper grades being subjected to high-speed printing, xerography and high precision converting processes.

There are three basic types of curl, mechanical curl, structural curl and moisture curl. Mechanical curl develops when one side of the paper is stretched beyond its elastic limits. One example of this is the curl in the sheet which forms near the centre of a roll. Structural curl is caused by two-sidedness in the sheet, that is a difference in the level of fines, fillers, fiber area density or fiber orientation through the sheet thickness. Moisture curl can develop when the paper sheet is being offset printed. One side of the sheet may pick up more moisture than the other, the higher moisture side releases the built in drying strains and the paper will curl towards the drier.

This method applies the principle of wetting one side of the paper and determining the maximum curvature developed or the time required to reach maximum curvature. The max. Curvature is an indication of relative tendency of certain paper, especially, to curl under normal condition of usage. The time required to reach max. Curvature is measure of relative degree of sizing such as secured with rosin (3).



APPLICABLE STANDARDS :

TAPPI T 466, T520

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