



HP Toner Archivability Overview

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Durability

HP LaserJet print cartridges are designed to work with HP LaserJet printers to provide high-quality output. During the fusing process, toner particles (which are plastic) are melted and adhere to the paper. Several external conditions, however, may adversely affect toner durability, including the printer's condition, environmental conditions such as heat, moisture and pressure, and chemical reactions that involve contact with other materials and the atmosphere.

HP LaserJet printers undergo the German archivability test (PTS) that is considered the most severe of several independent tests used in Europe. The test covers resistance to chemicals, water, folding, rubbing, tape, aging and forgery, as well as lightfastness and transfer of recording.

The result is that HP LaserJet print cartridges, when used with an HP LaserJet printer under most conditions, should provide a maximum level of durability without a noticeable change in print quality. In fact, in most cases, the paper or media will degrade before the adhered toner formulation will.

Waterfastness

HP LaserJet print cartridges use toner comprised of plastic which is not soluble in water. For this reason, toner should not streak, run or fade when exposed to water. The use of HP LaserJet print cartridges in the office is effective where documents are exposed to highlighters and/or potential spills.

Lightfastness

HP LaserJet printers undergo the German archivability test (PTS) that is considered the most severe of several independent tests used in Europe. In addition to durability tests, it also covers light fastness, and transfer of recording. HP internal test results show that Color LaserJet prints are comparable with an average photo kiosk (Walgreens/Wal-Mart) and/or outsourced copier documents (Kinko's).

Paper is Key

A document is only as good as the paper it is printed on. For a very long life, use paper that meets the ISO Standard 9706 or 11108 for permanent and archival paper. HP

Business Communication Papers and HP Everyday Papers Multi-Machine are tested and meet ISO 9706 for permanence. These papers are acid and lignin free to ensure documents will last a long time. Learn more at:

http://www.hp.com/products1/printpermanence/pdfs/acid_lignin.pdf.

Final Document and Storage Recommendations:

The best way to ensure the durability of your document is to follow these guidelines:

- Print using an HP printer and paper that meets the ISO standard
- Avoid placing the documents in direct sun light or avoid long exposure to sun light
- Avoid extreme environmental conditions (humidity, heat, cold, etc.)
- Store in normal home and office conditions
- Best if photos, diplomas, etc. are displayed under glass