

WILHELM IMAGING RESEARCH, INC.

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Statement From Wilhelm Imaging Research, Inc. Concerning the Long-Term Dark Storage Permanence of Plain-Paper Documents Printed With Epson DURABrite Ultra and Epson DURABrite Pro Pigment Inks On Epson Bright White Inkjet Paper and Hammermill Inkjet Paper

1) Long-term multi-temperature Arrhenius dark storage permanence tests conducted at 57°C, 64°C, 71°C and 78°C (135°F, 147°F, 160°F, and 172°F) at 50% RH by Wilhelm Imaging Research, Inc. for Epson indicate that documents printed with Epson **DURABrite Ultra** pigment inks and Epson **DURABrite Pro** pigment-based inks on the following Epson and Hammermill plain papers and stored in the dark under ambient conditions of 24°C (75°F) and 50% RH will achieve WIR Dark Storage Permanence Ratings of **“Greater Than 400 Years.”**

a) **Epson Bright White Paper** (plain paper)

(24 lbs./90 g/m²) Epson U.S.A. Product Number SO41586)

b) **Hammermill Inkjet Paper** (plain paper)

(24 lbs./90 g/m²) Hammermill U.S.A. Product Number 105050)

2) Wilhelm Imaging Research will issue a comprehensive report on the permanence of Epson Bright White Paper and Hammermill Inkjet Paper printed with Epson **DURABrite Ultra** pigment-based inks in March 2019. The report, based on more than five years of laboratory research and testing, is focused on water resistance and long-term dark storage permanence (including gradual paper yellowing) of these two plain papers, but also addresses light fading on long-term display, unprotected resistance to ozone, and resistance to high humidity.

3) Considering the many environmental hazards that a document may encounter over the years – including exposure to light, high-humidity conditions, atmospheric ozone, contact with water, and even total immersion in water – pigment-based inks are a much more secure choice than dye-based inks for plain-paper printing, especially for legal records, business documents, personal and family records, and documents that will be placed in libraries, museums, corporate collections, archives, and other institutions.