

Packaging and Paper Storage Guidelines

SKILLFUL
PRINTING

Ideal Conditions

	Recommended Range
Temperature	10°C min – 30 °C max (50–86 °F) Ideal 15°C – 25 °C (59–77 °F)
Relative Humidity (RH)	30-55%

Control & Stability

- Consistency matters more than perfection – avoid rapid fluctuations.
- Avoid drafts, direct sunlight, or heat sources near paper storage.
- Use HVAC, humidifiers, or dehumidifiers to stabilize climate.
- Monitor conditions continuously with thermo-hygrometers or data loggers.

Color Fading & Expiration

Uncoated Paper & Packaging

- Fading risk: Higher — uncoated fibers are porous and absorb ink/pigment, making them more vulnerable to UV light, humidity, and pollutants.
- Expected shelf life:
 - In controlled storage (10–30 °C, 30–55% RH, no direct light): 12-18 months before print fading or paper yellowing can begin.
 - Exposure to direct sunlight or poor conditions: fading may be visible in just 1.5-2 months.
- Notes: Even in good storage, natural lignin content in many uncoated stocks causes gradual yellowing over time.

Laminated Paper & Packaging

- Fading risk: Lower — the plastic film acts as a barrier against oxygen, moisture, and abrasion. It also slows down UV penetration but does not eliminate fading entirely.
- Expected shelf life:
 - In controlled storage: 24–36 months before signs of fading/yellowing are likely.
 - Under light exposure: still more resistant than uncoated, but matte lamination may show scuffs/discoloration faster than gloss.
- Notes: Lamination stabilizes printed colors and prevents surface damage, but adhesives and the film itself may yellow slightly over several years.

Storage

Stacking pallets is generally not recommended for finished packaging products such as rigid boxes and unit cartons. Please consult our team for more info about individual packaging stacking recommendation.

Practical Tip for Clients

- Always keep cartons and printed item away from direct sunlight and fluorescent lighting in warehouses.
- Maintain stable humidity levels, typically between 40% and 60%, to prevent mold growth and reduce brittleness.
- Maintain stable temperature 10°C min – 30 °C max (50–86 °F)
- Ensure the storage area is well-ventilated to prevent the buildup of harmful compounds that can affect paper quality.