



DuPont Printed Circuit Materials

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Recommended Practices for Handling and Storing Photographic Films

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Although photographic materials are not perishable in the same sense as foodstuffs, they must be handled and stored under controlled conditions if they are to be kept for long periods of time or if size holding is important. The following information is a summary of recommended practices for storage and handling. Detailed recommendations can be found in the following publications, available from the American National Standards Institute, 1430 Broadway, New York, NY 10018:

ANSI/NAPM IT 9.11-1993

“American National Standard for Imaging Media - Processed Safety Photographic Films - Storage”

Storage of Photographic Film in Original Unopened Boxes

Normal office conditions.

Humidity control not required.

Avoid temperatures greater than 25°C (77°F) and/or RH greater than 60% for extended periods.

Film Inventory Control

First-in, first-out basis.

Storage Prior to use (Opened Boxes)

T: $21 \pm 2^{\circ}\text{C}$ ($70 \pm 3^{\circ}\text{F}$). For critical work the tolerance is $\pm 0.5^{\circ}\text{C}$ ($\pm 1^{\circ}\text{F}$).

RH: $50 \pm 5\%$. For critical work the tolerance is $\pm 3\%$ RH.

Store flat if possible. Otherwise, loose rolls 30 cm (12”) minimum diameter.

Photolab Areas

T: $21 \pm 2^{\circ}\text{C}$ ($70 \pm 3^{\circ}\text{F}$). For critical work the tolerance is $\pm 0.5^{\circ}\text{C}$ ($\pm 1^{\circ}\text{F}$).

RH: $50 \pm 5\%$. For critical work in the tolerance is $\pm 3\%$ RH.

Storage of Working Phototools and Artwork Masters

Size Holding Important

T: $21 \pm 2^{\circ}\text{C}$ ($70 \pm 3^{\circ}\text{F}$)

RH: $50 \pm 5\%$

Store flat.

Size Holding Unimportant

T: 15-25°C (59 - 77°F). Avoid daily cycles greater than 4°C (7°F)

RH: Optimum range 30 - 50%. Daily cycles between these extremes should be avoided.

Humidities above 60% stimulate mold growth.

Store flat.

Shipment to Other Locations (Size Holding Important)

Ideal: Use heat-sealed foil laminate bags. Ship film flat in air conditioned vans. Ship as expeditiously as possible.

Minimum: Seal films in polyethylene bag packaged in film box or equivalent. If film must be rolled, the inside diameter must exceed 3” (8cm).



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