

Storage and Shelf Life Recommendations

Shelf Life - Storage of Appleton thermal products in a dark place at a relative humidity between 45 percent and 65 percent and a temperature below 77°F (25°C) will assure satisfactory performance for at least three years from the date of manufacture.

Image Life - Once Appleton thermal products have been imaged on the recommended equipment, Appleton Papers expects the image will remain legible for at least seven years, assuming the documents are properly stored with compatible materials under normal filing conditions, with a relative humidity between 45 percent and 65 percent, as well as a temperature below 77°F (25°C). (See the following pages for image life of specific paper grades.)

Fade Resistance - Appleton thermal products use dye and coreactant technology to form an image. The combination is slightly sensitive to ultraviolet (UV) light and may exhibit some image decline with extended exposure to office light or shorter exposure to intense UV light. The stability of the image will depend upon the degree to which the image was originally developed, the individual product design, the intensity of the UV light and the character of UV (percent of UV range in a light source). Sheet discoloration may also occur with prolonged exposure to UV light.

Contact Storage - We recommend that Appleton thermal grades not be exposed for long periods to certain vinyls, plastics, shrink wraps, adhesives, wet-toner copies or certain carbon papers. An exception to these general guidelines would be our specially topcoated tag, ticket and label grades.

Topcoated grades are more resistant to these incompatible materials, but images can still be affected with prolonged exposure.

Note: *Most thermal papers, regardless of the manufacturer, are susceptible to many of the same items shown on this page. These incompatible substances are not unique to Appleton thermal products.*

Following is a list of specific materials to avoid:

1. Organic solvents, including:
 - a. Alcohol (short chain)
 - b. Ketones (short chain)
 - c. Esters (short chain)
 - d. Ethers (short chain)
2. Cleaning fluids (from above list)
3. Plasticizers
 - a. Alcohol-type (cellophane tape)
 - b. Ester-type (PVC film)
 - c. Polyethylene glycol-type
 - d. Dioctyl phthalate
 - e. Dioctyl adipate
4. Petroleum solvents
 - a. Gasoline
 - b. Toluene
 - c. Benzene
5. Wet-type diazo copy paper
6. Carbon papers (certain types)
7. Cast-coated papers
8. Papers containing tributyl phosphate
9. Dissimilar thermal systems
10. Carbonless paper solvents
11. Ammonia
12. Certain oils
13. Water (prolonged exposure)

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Archival Properties

Making Master Number	Grade Name	Image Life*
3444-0000	675-Wavex® 400-3.3	20 years
3269-0000	700-Wavex® 400-3.3	20 years
1543-0000	900-Wavex® 600-3.4	20 years
1171-0000	Alpha® 180-3.3	10 years
6366-0000	Alpha® 185-3.2	10 years
1867-0000	Alpha® 200-3.8	7 years
1907-0000	Alpha® 200-4.5	7 years
2948-0000	Alpha® 400-2.1	10 years
2945-0000	Alpha® 400-2.3	10 years
2805-0000	Alpha® 800-2.4	10 years
2806-0000	Alpha® 800-3.4	10 years
1097-0000	Alpha® 800-3.8	10 years
2752-0000	Alpha® 820-2.4	10 years
2774-0000	Alpha® 820-3.4	10 years
3533-0000	Alpha® Plus 300-3.3	15 years
2677-0000	Alpha® Plus 400-3.2	15 years
2784-0000	Alpha® Plus 400-5.2	15 years
3018-0000	HeatSafe® 200-3.2	20 years
6339-0000	HeatSafe® 800-7.7	20 years
6924-0000	LightSafe® 300-3.3	20 years
2655-0000	PolyTherm® 300-3.0	20 years
2655-0000	PolyTherm® B 300-3.0	20 years
2698-0000	PolyTherm® 300-3.4	20 years
2654-0000	PolyTherm® 300-4.1	20 years
4391-0000	PolyTherm® 500-3.9	20 years
6346-0000	POS PLUS® 600-2.4	20 years

* The thermal image will remain legible for entire shelf life provided the image is fully developed on the recommended thermal printer and the document is stored with compatible materials under normal filing conditions. Maintain at relative humidity between 45 and 65 percent and temperatures below 77°F (25°C).

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Archival Properties

Making Master Number	Grade Name	Image Life*
0445-0000	PressPro® 500-7.7	20 years
2675-0000	PressPro® M 700-9.5	20 years
2675-0000	PressPro® M 700-9.2	20 years
6385-0000	Résiste® B 190-3.2	20 years
6748-0000	Résiste® 190-3.2	20 years
2137-0000	Résiste® 200-3.1	20 years
7084-0000	Résiste® 210-3.3	20 years
6970-0000	Résiste® 400-7.0	20 years
3438-0000	Résiste® 500-7.6	20 years
2764-0000	Résiste® 600-3.1	20 years
2641-0000	Résiste® 600-3.3	20 years
5161-0000	Résiste® 600-7.5	20 years
3539-0000	Résiste® 800-4.5	20 years
4028-0000	Résiste® 800-5.3	20 years
2417-0000	Résiste® 900-3.0	25 years
3451-0000	Résiste® Blue 800-3.3	10 years
2748-0000	Résiste® RC	20 years
2756-0000	Résiste® Rx 200-3.2	25 years
3540-0000	Royale 800-4.5	20 years
5646 -0000	SecuraTherm® Green	20 years
2682-0000	ThermArt® Blue 400-2.3	10 years
2684-0000	ThermArt® Canary 400-2.3	10 years
2683-0000	ThermArt® Green 400-2.3	10 years
2681-0000	ThermArt® Pink 400-2.3	10 years
3797-0000	ThermArt® Orange 600-3.2	20 years

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