

Storage & Shelf Life Recommendations

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

Image Life - Once Appvion thermal products have been imaged on the recommended equipment, Appvion expects the image will remain legible for at least seven years, assuming the documents are properly stored with compatible materials and at a temperature below 77°F (25°C). (see the following page for image life of specific paper grades.)

Fade Resistance - Appvion 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 the prolonged exposure to UV light.

Contact Storage - We recommend that Appvion 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 Appvion thermal products.

Below is a list of specific materials to avoid:

1. Organic solvents, including:
 - Alcohol (short chain)
 - Ketones (short chain)
 - Esters (short chain)
 - Ethers (short chain)
2. Cleaning Fluids (from above list)
3. Plasticizers
 - Alcohol-type (cellophane tape)
 - Ester-type (PVC film)
 - Polyethylene glycol-type
 - Dioctyl phthalate
 - Dioctyl adipate
4. Petroleum solvents
 - Gasoline
 - Toluene
 - 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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Grade Name	Image Life*
900-Wavex® 600-3.4	20 years
Wavex® PD	20 years
Alpha® 185-3.2	10 years
Alpha® 200-4.5	7 years
Alpha® 800-3.8	10 years
Alpha® 820-2.4	10 years
Alpha® 820-3.4	10 years
Alpha® Free-2.1	7 years
Alpha® Plus 600-3.2	20 years
Alpha® Plus 600-3.2 Canary	10 years
Two-Sided Alpha® 400-2.3	10 years
HeatSafe® 800-7.7	20 years
HeatSafe® 900-4.3	10 years
OPTIMA® S Ultrasound	20 years
OPTIMA® Wristband 4.0	20 years
OPTIMA® Wristband 6.0	20 years
PolyTherm® 190-4.1	20 years
PolyTherm® UV 190-4.1	20 years
PolyTherm® 200-3.2	20 years
PolyTherm® 200-3.8	20 years

*The thermal image will remain legible for entire shelf life provided the image is fully developed on the recommended thermal printers and the document is stored with compatible materials under normal filing conditions. Maintain at a relative humidity between 45 and 65 percent and a temperature below 77°F (25°C). See page 38.



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Grade Name	Image Life*
PolyTherm® 300-4.1	20 years
PolyTherm® 300-3.4 D	20 years
PolyTherm® 300-3.0 D	20 years
PolyTherm® 600-4.0	20 years
PolyTherm® 600-6.0	20 years
PolyTherm® 300-10.0	20 years
PolyTherm® Hotmelt 300-3.0 D	20 years
PolyTherm® Hotmelt 300-3.4	20 years
PolyTherm® Hotmelt 300-4.1	20 years
PolyTherm® Clear 300-3.0	20 years
POS PLUS® 600-2.4	20 years
PressPro® 500-7.7	20 years
PressPro® 700-9.5	20 years
Résiste® 185-3.2	20 years
Résiste® 190-3.2	20 years
Résiste® B 190-3.2	20 years
Résiste® 400-5.3	20 years
Résiste® 400-7.0	20 years
Résiste® 500-7.6	20 years
Resiste® B 550-3.1	20 years
Résiste® 600-3.1	20 years
Résiste® 600-7.5	20 years
Two-Sided Résiste® 800-4.5	20 years
Résiste® 800-4.5	20 years
Résiste® 800-5.3	20 years

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Grade Name	Image Life*
Résiste® 900-3.0	25 years
Résiste® B 900-3.2	25 years
Résiste® Magenta 400-7.0	20 years
Résiste® RC	20 years
Résiste® LE	20 years
Résiste® Rx	25 years
Royale 800-4.5	20 years
SecuraTherm® Blue	20 years
ThermArt® Blue 400-2.3	10 years
ThermArt® Canary 400-2.3	10 years
ThermArt® Green 400-2.3	10 years
ThermArt® Pink 400-2.3	10 years
ThermArt® Orange 600-3.2	20 years
Triumph® WB-3.2	10 years
Triumph® WB-7.7	10 years

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