

100 years projected archival life for Metal Azo CD-R

MCC / Verbatim CD-R is made by MCC patented METAL AZO based dye. The silver reflection layer is especially designed for best performance and longevity in combination with Metal Azo. Our special UV-cured coating and polycarbonate adds to the durability.

Due to these superior features an archival lifetime of 100 years is projected.

Test Method:

1. Record data at normal office environment and measure BLER.
(BLER stands for Block Error Rate whose criterion is specified as below 220 in the Orange Book.)
2. Put several pieces of media into climate controlled environment which is set to the following conditions respectively:

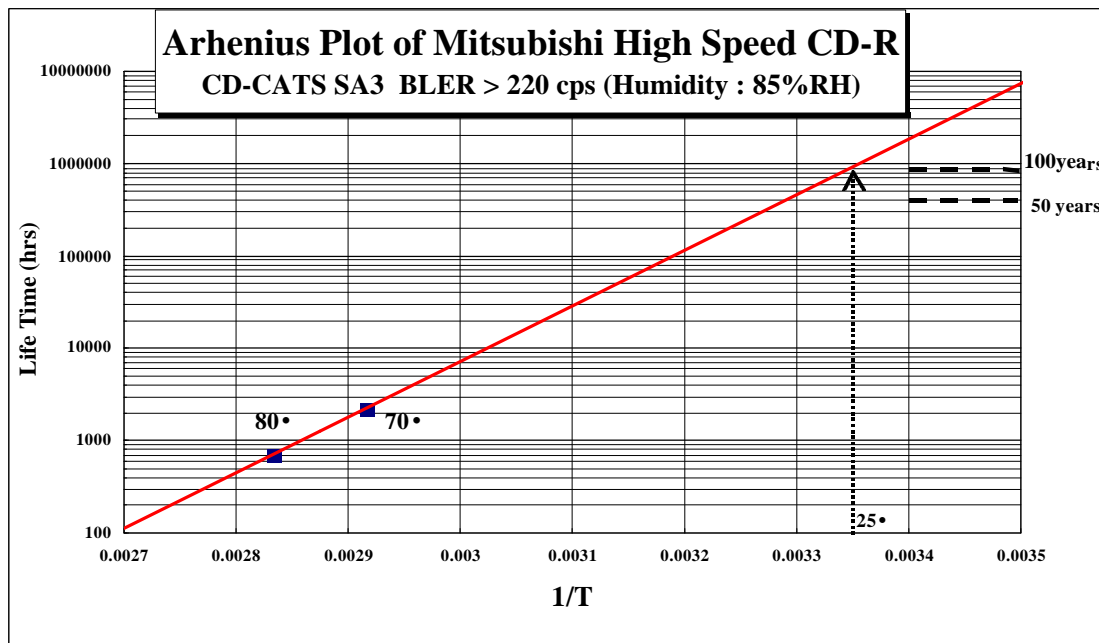
	Temperature	Humidity
Oven 1	80 degree	85 RH%
Oven 2	70 degree	85 RH%
3. Take the media out of the ovens at fixed intervals and measure BLER.
4. When the BLER exceeds 220, that time is defined as the end of life at that temperature.
5. Apply “Arrhenius” method to project life at the office environment.



DataLifePlus®

Test Result:

As shown in below , the projected lifetime at 25 degree is more than 100 years.



Conclusion:

MCC/Verbatim projects the archival life of its CD-R as 100 years.

The following conditions need to be applied to ensure the projected lifetime:

- A writer with normal performance records data.
- There is no corrosive gas in the air.
- There are no scratches or finger prints on the media surface.
- Temperature is controlled within 25 +/- 2 degrees.
- Humidity is controlled within 55 +/- 5 RH%.
- Media is stored in the jewel case.
- Media is not exposed to direct sunlight or any other source of UV light.