
**Information technology — Digitally
recorded media for information
interchange and storage — Test method
for the estimation of the archival lifetime
of optical media**

*Technologies de l'information — Supports enregistrés numériquement
pour l'échange et le stockage d'information — Méthode d'essai pour
l'estimation de la durée de vie d'archivage des supports optiques*



COPYRIGHT PROTECTED DOCUMENT

© ISO/IEC 2011

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

	Page
Foreword	iv
Introduction.....	iv
1 Scope	1
2 Conformance	1
3 Normative references	2
4 Terms and definitions	2
5 Conventions and notations	3
5.1 Representation of numbers.....	3
5.2 Names.....	3
6 Abbreviated terms	3
7 Measurements	4
7.1 Summary	4
7.2 Test specimen.....	5
7.3 Recording conditions.....	5
7.4 Playback conditions.....	6
7.5 Disk testing locations	6
8 Accelerated stress test	7
8.1 General	7
8.2 Stress conditions	7
8.3 Measuring Time intervals	9
8.4 Stress Conditions Design.....	9
8.5 Media Orientation	9
9 Data Evaluation.....	9
9.1 Time-to-failure.....	9
9.2 Eyring acceleration model (Eyring Method)	10
9.3 Data analysis.....	10
Annex A (normative) Data Analysis Steps Outline for Calculation of Media Life	11
Annex B (normative) Analysis for Calculation of Media Life	12
Annex C (normative) Uncontrolled Ambient Condition Media Life Calculation.....	22
Annex D (informative) Truncated Test Method (Determination of Media Life Lower Bound)	23
Annex E (informative) Relation between BER and PI Sum 8	26
Bibliography.....	27