

ISO/IEC 29121:2018-03 (E)

Information technology - Digitally recorded media for information interchange and storage - Data migration method for optical disks for long-term data storage

| Contents | | Page |
|---|--|-------------|
| Foreword | | iv |
| Introduction | | v |
| 1 Scope | | 1 |
| 2 Normative references | | 1 |
| 3 Terms and definitions | | 2 |
| 4 Test method | | 4 |
| 4.1 Test parameters | | 4 |
| 4.2 Test area | | 4 |
| 4.3 Test drive | | 5 |
| 4.3.1 General | | 5 |
| 4.3.2 Test drive calibration | | 5 |
| 4.4 Disk preparation | | 5 |
| 4.5 Test execution | | 5 |
| 5 Test interval for periodic performance test | | 5 |
| 6 Test result evaluation | | 6 |
| 6.1 General | | 6 |
| 6.2 Initial performance test | | 6 |
| 6.3 Periodic performance test | | 6 |
| 7 Prevention of deterioration | | 7 |
| Annex A (informative) Causes of deterioration for optical disks for long-term data storage | | 8 |
| Annex B (informative) Recommendations on handling, storage and cleaning conditions for optical disks for long-term data storage | | 10 |
| Annex C (informative) Relation between BER and PI SUM 8 | | 12 |
| Annex D (informative) Guideline for adjustment of the estimated lifetime to higher stress conditions | | 13 |
| Annex E (informative) Calculation for Bmig Life using B50 Life and B5 Life | | 15 |
| Annex F (informative) Guideline of test interval and migration | | 17 |
| Annex G (informative) Test area | | 20 |
| Annex H (informative) Max RSER criteria for BD Recordable and BD Rewritable disks | | 21 |
| Annex I (informative) Guideline for treatment of defects | | 22 |
| Bibliography | | 23 |