

DIN EN 16472:2014-06 (E)

Plastics - Method for artificial accelerated photoageing using medium pressure mercury vapour lamps

| Contents | | Page |
|-----------------------|--|-------------|
| Foreword | | 3 |
| Introduction | | 4 |
| 1 | Scope | 5 |
| 2 | Normative references | 5 |
| 3 | Terms and definitions | 5 |
| 4 | General | 5 |
| 5 | Apparatus | 6 |
| 5.1 | Laboratory light source | 6 |
| 5.2 | Test chamber | 8 |
| 5.3 | Specimen holders | 9 |
| 5.4 | Radiometer | 9 |
| 5.5 | Temperature sensor | 9 |
| 5.6 | Temperature controller | 9 |
| 5.7 | Optional facilities | 10 |
| 6 | Test specimens | 10 |
| 7 | Exposure conditions | 10 |
| 7.1 | Radiation | 10 |
| 7.2 | Temperature | 10 |
| 7.3 | Optional facilities | 10 |
| 8 | Procedure | 10 |
| 8.1 | Verification of the apparatus | 10 |
| 8.2 | Mounting the test specimens | 11 |
| 8.3 | Exposure | 11 |
| 8.4 | Measurement of radiant exposure | 11 |
| 8.5 | Determination of changes in properties after exposure | 11 |
| 9 | Test report | 11 |
| Annex A (informative) | Additional filtering of lamp UV radiations | 13 |
| A.1 | Additional filtering of UVB radiations for chromophoric polymers exposed to outdoor conditions | 13 |
| A.2 | Additional filtering of UV radiations for polymers exposed to indoor conditions | 14 |
| Annex B (informative) | Temperature control during photoageing | 15 |
| Bibliography | | 16 |