

DIN EN ISO 4892-1:2016-10 (E)

Plastics - Methods of exposure to laboratory light sources - Part 1: General guidance (ISO 4892-1:2016)

Contents		Page
European foreword		3
Foreword		4
Introduction		5
1 Scope		6
2 Normative references		6
3 Terms and definitions		7
4 Principle		7
4.1 General		7
4.2 Significance		8
4.3 Use of accelerated tests with laboratory light sources		9
5 Requirements for laboratory exposure devices		10
5.1 Irradiance		10
5.2 Temperature		11
5.3 Humidity and wetting		13
5.4 Other requirements for the exposure device		14
6 Test specimens		15
6.1 Form, shape and preparation		15
6.2 Number of test specimens		16
6.3 Storage and conditioning		16
7 Test conditions and procedure		16
7.1 Set points for exposure conditions		16
7.2 Property measurements on test specimens		17
8 Periods of exposure and evaluation of test results		18
8.1 General		18
8.2 Use of control materials		18
8.3 Use of results in specifications		18
9 Test report		19
Annex A (normative) Procedures for measuring the irradiance uniformity in the specimen exposure area		21
Annex B (informative) Factors that decrease the degree of correlation between artificial accelerated weathering or artificial accelerated irradiation exposures and actual-use exposures		24
Annex C (informative) Solar spectral irradiance standards		27
Bibliography		29