ISO/TS 19022:2016-02 (E)

Plastics - Method of controlled acceleration of laboratory weathering by increased irradiance

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Symbols and abbreviated terms 2

5 Principle 2

6 Apparatus 2
6.1 General 2
6.2 Test chamber 2
6.3 Laboratory radiation source 3
6.3.1 General 3
6.3.2 Spectral irradiance 3
6.3.3 Irradiance uniformity 3
6.4 Radiometer 4
6.5 Test chamber temperature and relative humidity 4
6.6 Black-standard/black-panel thermometer 4
6.7 Wetting and humidity-control equipment 4
6.7.1 General 4
6.7.2 Relative-humidity control equipment 4
6.7.3 Spray system 4
6.8 Specimen holders 4
6.9 Apparatus to assess changes in properties 5

7 Test specimens 5

8 Test method 5

9 Exposure conditions 6
9.1 Radiation 6
9.2 Temperature 6
9.2.1 Black-standard and black-panel temperature 6
9.2.2 Chamber air temperature 6
9.2.3 Specimen surface temperature 6
9.3 Humidity of chamber air 7
9.3.1 Relative humidity of chamber air 7
9.3.2 Spray cycle 7

10 Procedure 7
10.1 General 7
10.2 Mounting the test specimens 7
10.3 Exposure 7
10.4 Measurement of radiant exposure 8
10.5 Determination of changes in properties after exposure 8

11 Test report 8

Annex A (informative) Principle of reciprocity 9

Bibliography 10