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Plastics — Methods of exposure to laboratory light sources —

Part 2: Xenon-arc lamps

AMENDMENT 1

*Plastiques — Méthodes d'exposition à des sources lumineuses de
laboratoire —*

Partie 2: Lampes à arc au xénon

AMENDEMENT 1



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Foreword

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Amendment 1 to ISO 4892-2:2006 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 6, *Ageing, chemical and environmental resistance*.

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Plastics — Methods of exposure to laboratory light sources —

Part 2: Xenon-arc lamps

AMENDMENT 1

This Amendment specifies eight additional exposure cycles in a new table (Table 4) in which temperature control is by a black-panel thermometer.

The black-panel temperatures specified in Table 4 and the black-standard temperatures specified in Table 3 are those most commonly used but have no relationship to each other. Therefore, test results obtained with the two tables may not be comparable.

Page 5, Subclause 4.5.1

In the first and second paragraphs, replace “Table 3” by “Tables 3 and 4”.

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In 6.1, replace “Table 3” by “Table 3 or 4”.

In 6.2.1, first paragraph, second line, insert “(see Table 4)” after “black-standard thermometers” so that the sentence reads:

For normal work, black-panel thermometers may be used in place of black-standard thermometers (see Table 4).

In 6.2.1, Note 2, replace “see cycles 3, 4, 7 and 8 in Table 3” by “see cycles 3, 4, 7 and 8 in Table 3 and cycles 11, 12, 15 and 16 in Table 4”.

In 6.2.2, replace “Table 3” by “Table 3 or 4”.

In 6.3, replace “Table 3” by “Table 3 or 4”.

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Change the title of Table 3 to:

Table 3 — Exposure cycles with temperature control by black-standard thermometer

Following Table 3, add the following new text and the new Table 4:

Table 4 lists various exposure conditions for tests conducted with daylight filters (method A) and with window glass filters (method B) but, unlike Table 3, temperature control is by means of a black-panel thermometer.

Table 4 — Exposure cycles with temperature control by black-panel thermometer

Method A — Exposures using daylight filters (artificial weathering)						
Cycle No.	Exposure period	Irradiance ^a		Black-panel temperature °C	Chamber temperature °C	Relative humidity %
		Broadband (300 nm to 400 nm) W/m ²	Narrowband (340 nm) W/(m ² ·nm)			
9	102 min dry	60 ± 2	0,51 ± 0,02	63 ± 3	38 ± 3	50 ± 10 ^b
	18 min water spray	60 ± 2	0,51 ± 0,02	—	—	—
10	102 min dry	60 ± 2	0,51 ± 0,02	63 ± 3	Not controlled	Not controlled
	18 min water spray	60 ± 2	0,51 ± 0,02	—	—	—
11	102 min dry	60 ± 2	0,51 ± 0,02	89 ± 3	65 ± 3	20 ± 10
	18 min water spray	60 ± 2	0,51 ± 0,02	—	—	—
12	102 min dry	60 ± 2	0,51 ± 0,02	89 ± 3	Not controlled	Not controlled
	18 min water spray	60 ± 2	0,51 ± 0,02	—	—	—
Method B — Exposures using window glass filters						
Cycle No.	Exposure period	Irradiance ^a		Black-panel temperature °C	Chamber temperature °C	Relative humidity %
		Broadband (300 nm to 400 nm) W/m ²	Narrowband (420 nm) W/(m ² ·nm)			
13	Continuously dry	50 ± 2	1,10 ± 0,02	63 ± 3	38 ± 3	50 ± 10 ^b
14	Continuously dry	50 ± 2	1,10 ± 0,02	63 ± 3	Not controlled	Not controlled
15	Continuously dry	50 ± 2	1,10 ± 0,02	89 ± 3	65 ± 3	20 ± 10
16	Continuously dry	50 ± 2	1,10 ± 0,02	89 ± 3	Not controlled	Not controlled
NOTE The ± tolerances given for irradiance, black-panel temperature and relative humidity are the allowable fluctuations of the parameter concerned about the given value under equilibrium conditions. This does not mean that the value can vary by plus/minus the amount indicated from the given value.						
^a The irradiance values given are those that have historically been used. In apparatus capable of producing higher irradiances, the actual irradiance may be significantly higher than the stated values, e.g. up to 180 W/m ² (300 nm to 400 nm) for xenon-arc lamps with daylight filters or 162 W/m ² (300 nm to 400 nm) for xenon-arc lamps with window glass filters.						
^b For materials sensitive to humidity, the use of (65 ± 10) % RH is recommended.						

In 6.4, replace “Table 3, method A” by “method A in Table 3 or 4”.

In 6.5, replace “Table 3” by “Tables 3 and 4”.

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In 6.6, replace “Table 3 lists” by “Tables 3 and 4 list”.