**SLR-59-01**

Proposal to correct R150-01

to include requirements for fluorescent material

(Based on WP.29/2022/94)

*Annex 6, Part 6,* amend to read:

“Part 6 - Resistance to weathering

1. Accelerated artificial weathering

1.1. The apparatus shall be in accordance with EN ISO 4892-1:2016 and EN ISO 4892-2:2013 and shall be capable to control temperature and relative humidity and shall be equipped with a water spray system.

1.1.1. The water spray system shall be capable to spray a minimum of 0.3 ml/cm² within 5 minutes.

1.1.2. The spray water used shall be in accordance to the requirements of EN ISO 4892-2:2013.

1.2. For temperature measurement either a Black-Standard or a Black-Panel thermometer can be used (test method TM1 and TM2).

2. The test method used shall be specified in the report.

3. The samples shall be exposed in accordance with EN ISO 4892-2:2013 using the parameters given in Table A6-1~~, for a period of 500 hours.~~**:**

**3.1 in case of retroreflective devices for a period of 500 hours,**

**3.2 in case of fluorescent materials for a period of 100 hours.**

Table A6-1

**Accelerated artificial weathering test parameters**

…”

Justification:

Excerpt of Reg. 150-00

Annex 13

Resistance to weathering

….

1.2. The second specimen shall be subjected to a source of illumination with a temperature and irradiation test described in Annex 22, if required in in the relevant paragraph 5. of this Regulation:

(a) The retro-reflector or **retro-reflective material** shall be exposed until **blue standard No. 7** has faded to No. 4 on the grey scale blue standard No. 7.

(b) The fluorescent material or fluorescent / retro-reflective material shall be exposed until **blue standard No. 5** has faded to No. 4 on the grey scale.

SLR-58-03\_(HWT-R150)\_Weathering test R69, R70, R104 in comparison with R150-01

|  |  |  |
| --- | --- | --- |
| **Blue Wool Scale** | **Irradiance [kJ/m²]**Broadband300 – 400 nm | **Exposure Periode [h]** |
| L2 | 864 | 14,4 |
| L3 | 1728 | 28,8 |
| L4 | 3458 | 57,6 |
| **L5** | **6912** | **115,2** |
| L6 | 13824 | 230,4 |
| **L7** | **27648** | **460,8** |
| L8 | 55296 | 921,6 |
| L9 | 110592 | 1843,2 |