

ARTIFICIAL GRASS - LIGHT AGEING TEST - UV EXPOSURE



ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies).

ISO 4892 Plastics -- Methods of exposure to laboratory light sources on artificial grass.

This part of ISO 4892 specifies methods for exposing specimens to fluorescent UV radiation, heat and water in apparatus designed to simulate the weathering effects that occur when materials are exposed in actual end-use environments to global solar radiation, or to solar radiation through window glass. The specimens are exposed to fluorescent UV lamps under controlled environmental conditions (temperature, humidity and/or water). Different types of fluorescent UV lamp can be used to meet all the requirements for testing different materials.

Specimen preparation and evaluation of the results are covered in other International Standards for specific materials.



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Test Item : Light Ageing Test-UV Exposure

Sample Description : Plastic part

Test Method : ISO 4892-3:2013 Method C Cycle 6

Test Condition :

Exposure cycle :

ISO 4892-3:2013 Method C Cycle 6

Lamp type : UVB-313

8h UV at (70 ± 3) °C BPT, 0.48W/(m².nm) @ 310nm

4h condensation at (50 ± 3) °C BPT

Exposure duration : 3000h

Sample	Grey scale (See note 1)
1	4-5

Note :

1. According to ISO 105-A025:1993/Cor.2:2005, Gray scale is determined under D62 standard light, grade 5 is the best and grade 1 is the worst.
2. The results were carried out within 1 hour after above specified durations for the intermediate inspection as well as at the end of the exposure.

