

PRO CLAD INDEPENDENT TEST REPORT

WEATHERING OF PLASTIC FILMS



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Pro Clad independent test report

Weathering of plastic films

Tested material:

- A) Unprotected polyester film
- B) UV-protected cover film

Testing standard:

ASTM G 26A: recommended practice for operating light-exposure apparatus (xenon-arc-type) with and without water for exposure of nonmetallic materials
This standard is equivalent to ISO 4892.

Testing period:

2003 - 2004

Weathering equipment:

Atlas weatherometer (wom) ci series
Xenon lamp with 2 borosilicate filters

Test conditions:

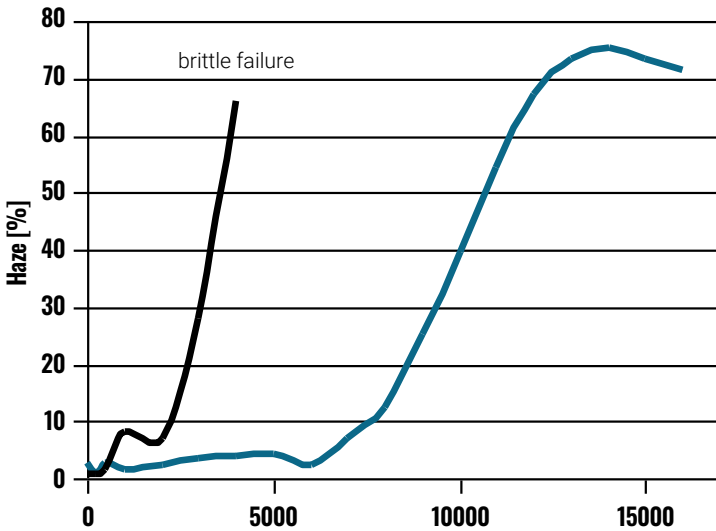
- UV radiation with 0,35 W/m² at 340 nm
- 63 +/- 3 °C black panel temperature (controlled)
- 42 +/- 4 °C dry bulb temperature (controlled)
- 50 - 60% Relative humidity during dry period (controlled)

Test cycle:

- 102 minutes dry plus UV-radiation
- 18 minutes water spray plus UV radiation

Test result:

Cover film versus unprotected polyester film of the same thickness

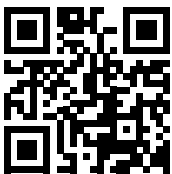


- Unprotected polyester film control
- UV protected high performance cover film

The self explanatory test result shows that the UV-protected cover film is long term resistant against haze even under the above specified aggressive testing conditions.

1000 hours exposed to artificial weathering theoretically correspond to about 1 to 2 years in outdoor application. Recommended duration of use approx. 15 to 30 years depending on the environmental impact.

Quelle Text & Bild: Folienhersteller



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