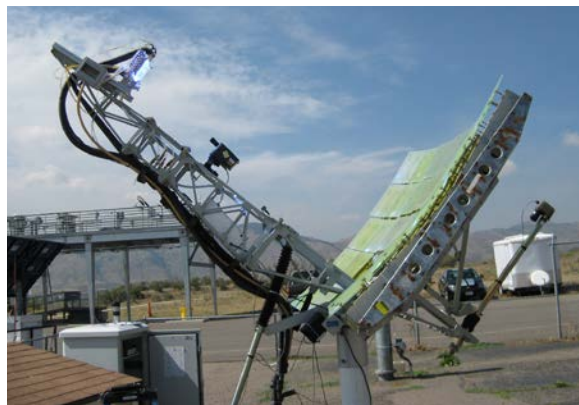
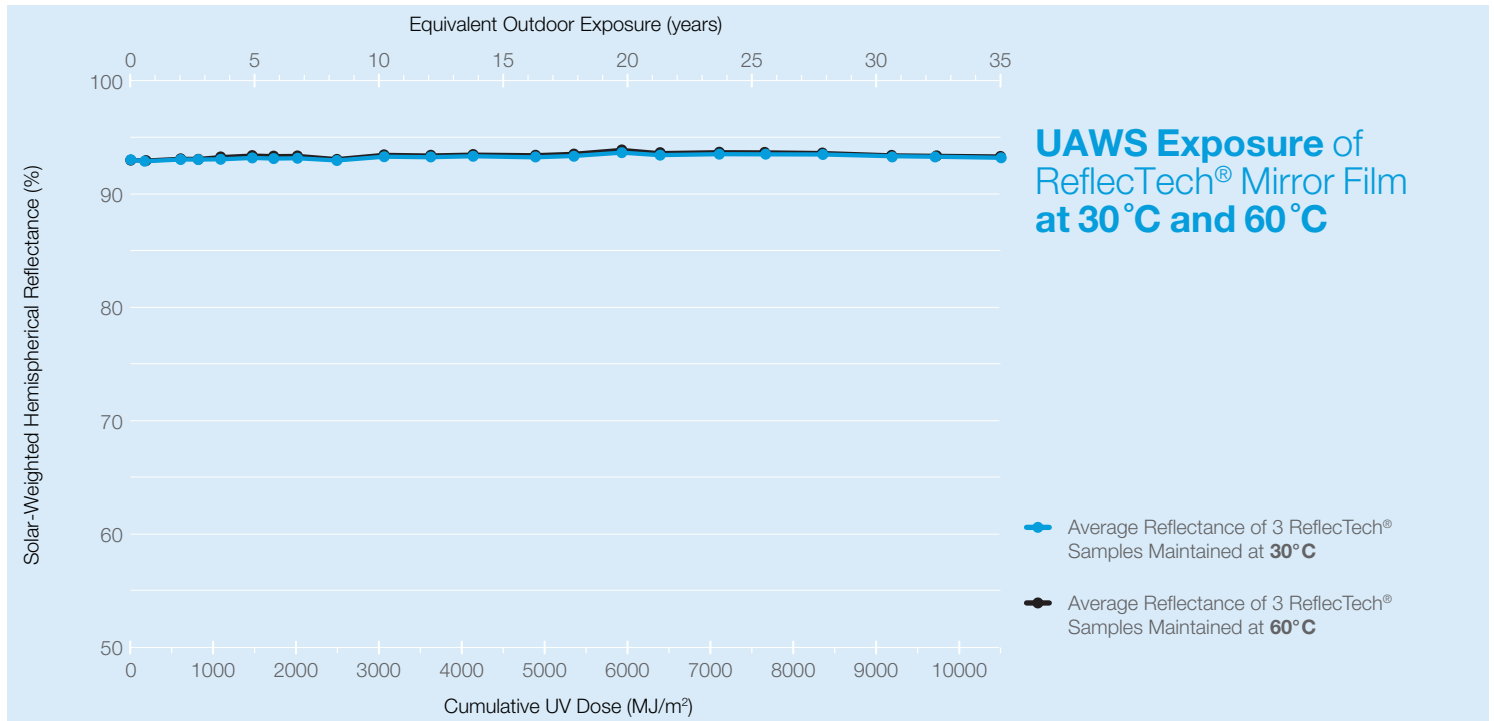


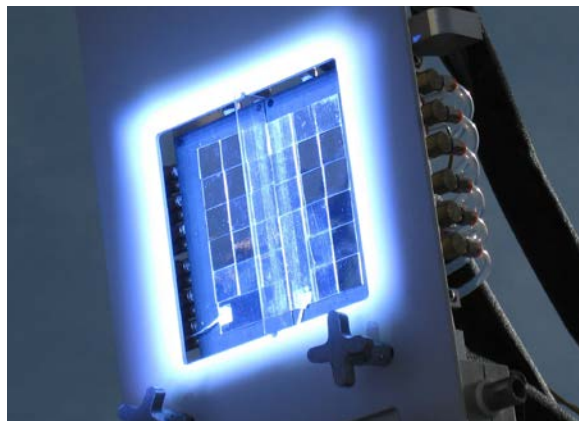
# ReflecTech® PLUS Durability



## Accelerated Weathering Testing Summary

ReflecTech®PLUS mirror film has demonstrated durability against ultra-violet (UV) radiation by surpassing the equivalent of 35 years of cumulative exposure in the Ultra-Accelerated Weathering Station (UAWS) at the National Renewable Energy Laboratory (NREL).

UAWS is the most accelerated method to determine the long-term durability of a material to outdoor exposure. Natural sunlight is concentrated 100X while sample exposure temperatures are maintained at 30°C and 60°C to accelerate degradation mechanisms.



After receiving the equivalent cumulative UV dose of over 35 years outdoor exposure, no degradation and no loss in reflectance were measured in three replicate samples.

### References:

**H. K. Hardcastle, G. J. Jorgensen, and C. E. Bingham**

“Ultra-Accelerated Weathering System I: Design and Functional Considerations”, *Natural and Artificial Ageing of Polymers – 4th European Weathering Symposium*; Reichert, T., Ed. Publication No. 11, Gesellschaft für Umweltsimulation: Germany, 2009.

top: NREL’s UAWS: 100X Concentration  
bottom: ReflecTech® samples on sun @ 30° & 60°C

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