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Aging Performance

Silicon Carbide UV photodetectors vs Silicon and GaP UV photodetectors

Test Mercury lamp energy at 254 nm with the flux specified below:

Material	Flux	Hours Exposed	Results
Silicon Carbide	100 Watts/M ²	2500 hrs	No measurable degradation
Silicon	200 Watts/M ²	208 hrs	40% loss of output
GaP	15 Watts/M ²	1000 hrs	4% loss of output

Although the test conditions were not the same, the Silicon Carbide is the only material that did not degrade with long term exposure to UV.