

Product Name : PU 450
Company : Akde Performance Chemicals
Date : 20.03.2025
Colour : Grey
Product Description : One component polyurethane coating
Reference Standard : ASTM G154- Standard practice for operating light and water exposure apparatus for exposure of nonmetallic materials

Test Conditions

Test specimens are prepared and conditioned at 23 °C, 50% R.H. After conditioning the samples are exposed to a cyclic exposure of artificial light at elevated temperature for 2000 hours. Any blister, crack and deformation was observed. Only color change was observed.

Size of samples : 60mm x 90mm x 1mm
No of samples : 3
Conditioning : 14 days at 23 °C $\pm$ 2 °C, 50% $\pm$ 5% R.H
Artificial weathering : Automatic cycling
Test machine type : Q-Sun Xenon Tester XE-03-HS (UVB 313 lamp)
Exposure time : 2000 hrs.
Cycle condition : 4 hrs UV at 60 $\pm$ 3 °C Black Panel Temperature (Irradiance: 0,71 W/m²)
4 hrs condensation at 50 $\pm$ °C Black Panel Temperature

Results

After 2000 hours of UV exposure test **PU 450** had no blister, cracks and deformation. Color change is normal situation for aromatic products. Therefore all of the samples of PU 450 are **PASSED** the test.

Sample No	Pass/Fail
1	Pass
2	Pass
3	Pass

AKDE
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