

TEST REPORT

TEST INFORMATION:

Test Report Number: L00010
Test Type: Yellowing Index for Optic Material (Refer to ASTM E313)
Test Model: Green Cobra Luminaire Light Engine Optic Material
Test Material: TARFLON LEV1700KL

TEST PERFORMED BY:

Company: Idemitsu Kosan Co., Ltd. 
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Test Conductor: Yusuke Aobi
Test Completion Date: August 15, 2016

DESCRIPTION OF UNIT UNDER TEST:

Test Model: Green Cobra Luminaire Light Engine Optic Material

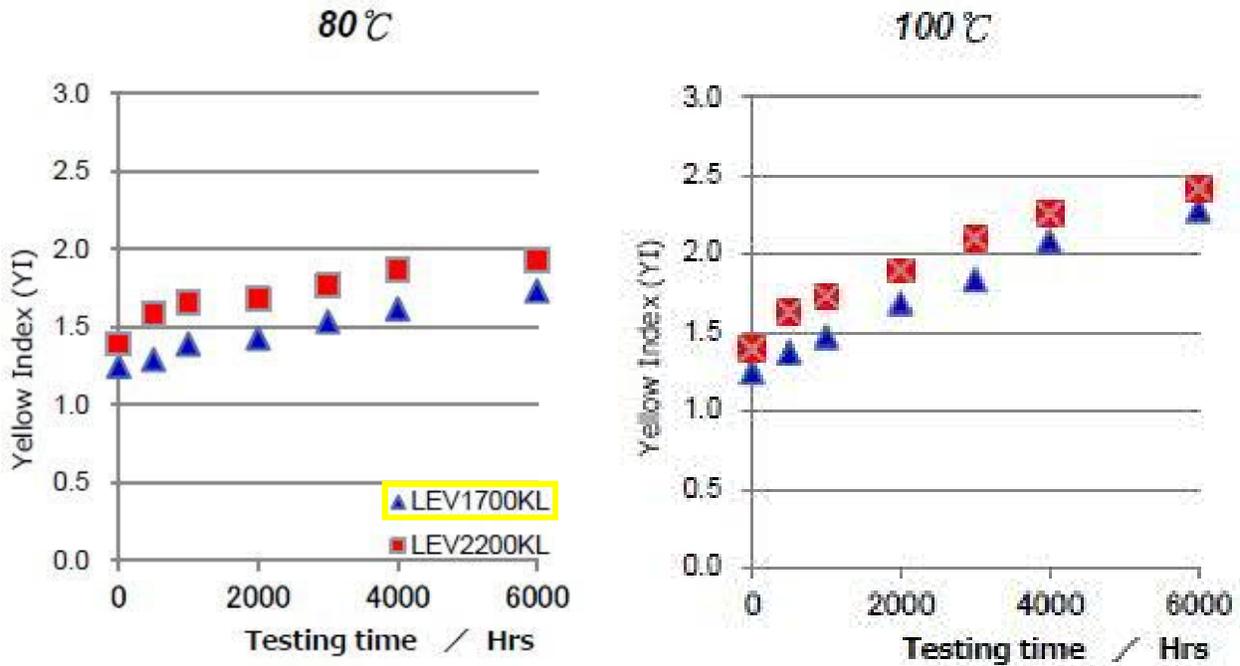
Test Material: TARFLON LEV1700KL

Test Material Thickness: 3.2mm

TEST DESCRIPTION:

Multiple test samples underwent exposure to elevated temperature environment for 6,000 hours at 80C and 100C. Test samples were removed and inspected several times during temperature exposure for YI testing using a calibrated Gardner Spectrophotometer. The Yellowing Index of the LEV1700KL was measured according to ASTM D-1925, superseded by ASTM E313.

TEST DATA:



TEST RESULTS:

The final Yellowing Index was measured to be less than 2 after 6,000 hours of elevated temperature exposure. At both temperatures, the YI data appears to be leveling off. A value of 2 is very low, especially when compared to the industry standard allowable of 30.

Product	Temperature (°C)	Time (hrs)	YI Value
LEV1700KL	80	6,000	1.59
	100	6,000	1.99