Technical Test & Compliance Overview

Akusta Plast - selected fire performance, gas toxicity and chemical compliance results

SUMMARY Akusta Plast achieves V-0 classification in the available UL 94 tests. RoHS and REACH/SVHC screening results are within the stated analytical limits. Gas-toxicity test results according to KS F 2271:2021 are also available.

TEST RESULTS AT A GLANCE

UL 94 V-0 2.2 mm specimen Vertical Burning Test	**UL 94:2023 V-0** 0 s afterflame Original state
REACH / SVHC 241 substances All ≤ 0.1% w/w	**RoHS** N.D. Cd, Pb, Hg, Cr(VI), PBB/PBDE, 4 phthalates

DETAILED TEST RESULTS

AREA	TEST / STANDARD	SPECIMEN	RESULT
Flammability	UL 94:2013 Vertical Burning Test	2.2 mm	V-0. Individual afterflame times 0-1 s; total afterflame times 3 s and 4 s; no ignition of cotton.
Flammability	UL 94:2023 Vertical Burning Test	Original state	V-0. t1 = 0 s, t2 = 0 s, t2+t3 = 0 s; no burning to 125 mm mark; no ignition of cotton.
Chemical compliance	REACH / ECHA SVHC Candidate List	241 substances	Screening result: all tested SVHC at or below 0.1% w/w within the stated analytical scope.
Chemical compliance	RoHS / IEC 62321 reference methods	-	Cd, Pb, Hg, Cr(VI), PBB/PBDE and DEHP, DBP, BBP, DIBP: N.D. (below the respective method detection limit).
Gas toxicity	KS F 2271:2021	0.6 mm	Measured average time to stop moving: 14:47 min and 13:12 min for the two specimens.

WHAT THE RESULTS SHOW

FIRE PERFORMANCE	CHEMICAL COMPLIANCE	GAS TOXICITY
V-0 classification in both available vertical burning tests, with very short or zero measured afterflame times.	SVHC screening is within the 0.1% w/w threshold; the listed RoHS substances were not detected above their analytical limits.	KS F 2271:2021 test results document average stop-moving times of 14:47 min and 13:12 min on 0.6 mm specimens.

Notes

- The information applies to the specific samples and test conditions stated in the respective laboratory reports.
- The V-0 result at 2.2 mm refers to the corresponding tested specimen.
- N.D. means not detected below the respective analytical detection/reporting limit.
- The available test reports document test results; they do not by themselves constitute UL certification or UL Recognition.

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