

Comparison of UL94 plastic flame retardant grade and U1581L VW-1 flame retardant grade

There are 12 kinds in UL94: HB, V-0, V-1, V-2, 5VA, 5VB, VTM-0, VTM-1, VT M-2, HBF, HF-1, HF-2.

Flammability UL94 rating is the most widely used flammability performance standard for plastic materials. It is used to evaluate the ability of a material to extinguish after it has been ignited. According to the burning speed, burning

There are many ways to judge the time, the ability to resist dripping, and whether the beads are burned. Each material to be tested can obtain many values depending on the color or thickness. When selecting a product

When the material is used, its UL rating should meet the thickness requirements of the wall portion of the plastic part. The UL rating should be reported along with the thickness value, only the UL rating is reported and no thickness is not Enough.

The flame retardant grade of plastic is gradually increased from HB, V-2, V-1, V-0, 5VB to 5VA:

1) HB: The lowest flame retardant rating in the UL94 standard. Requirements for samples from 3 to 13 mm thick, burning speeds less than 40 mm per minute; samples less than 3 mm thick,

Burning speed is less than 70 mm per minute; or extinguished before the 100 mm mark.

2) V-2: After two 10 second burn tests on the sample, afterflame & afterburning is extinguished within 60 seconds. The dripping particles can ignite the cotton.

3) V-1: After two 10 second burn tests on the sample, afterflame and afterburning were extinguished within 60 seconds. The dripping particles do not ignite cotton.

4) V-0: After the sample was subjected to two 10 second burn tests, the afterflame & afterburning was extinguished within 30 seconds. The dripping particles do not ignite cotton.

5) 5VB: After five 5 second burn tests on the sample, afterflame & afterburning is extinguished within 60 seconds. The dripping particles do not ignite cotton. For block samples allowed to be burned through.

6) 5VA: After five 5 second burn tests on the sample, afterflame & afterburning is extinguished within 30 seconds. The dripping particles do not ignite cotton. For block samples, it is not allowed to be burnt wear.