Fire Retardant Insulators



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A fire retardant rated polymer will ignite if the temperature exceeds its ignition point. However, a FR material will self-extinguish after the heat source is removed.

Although no specific flammability standard exists for insulators, the most commonly referenced industry standards for FR rated materials are all equivalent: UL-94, ASTM D3801 and IEC60695.

UL 94

Hendrix flame retardant (FR) insulators are tested according to UL 94. The material passes vertical burning V-0, which is the most stringent rating for UL 94. Below is a summary of the test:

- UL 94 evaluates the flammability behavior of a polymeric material under an open flame or radiant heat source
- · V-0 rating:
 - Flame self-extinguishes in ≤ 10 seconds after the ignition source is removed
 - Cotton balls located 300 mm (~11.8") below the burning samples should not ignite by the flaming particles or drops

Conventional Test

In addition to the UL 94 test, a "field" burning test was conducted using a Hendrix FR insulator. A utility torch (Bernzomatic MAP/PRO) flame was directly applied to the insulator's fin, the thinnest section (~1/8"), for 30 continuous seconds.

- Flame self-extinguished less than 5 seconds after the torch was removed
- The insulator burning drops selfextinguished and didn't ignite the cotton balls placed 2ft below the insulator.





All insulators are available in FR. Minimum order requirements apply. Contact rep or factory for details.