

Flame Retardent master Batch

Primary goal is to delay the ignition and burning of materials allowing more time to escape the affected area and limited property damage. Flame retardant masterbatches mainly brominated, Chlorinated, Phosphorous or metallic oxides. Formulated in such away against fire initiation also balance mechanical properties & avoid spreading of fire. Flame retardant masterbatches are often custom-formulated copolymer base to match molecular structure and melt viscosity of base resin.

Additional level are depends upon flame ret ardency necessary. Let down ration is 10-14 % in PE to meet UL 94 - V2 ratio.

UL 94 –Vertical burning test provides a preliminary assessment of relative flammability and dripping forpolymer used in electrical equipment & devices and appliances

UL 181 – Air duct and air connector system. Based on US national Fire association

UL 214 – Fabrics and films

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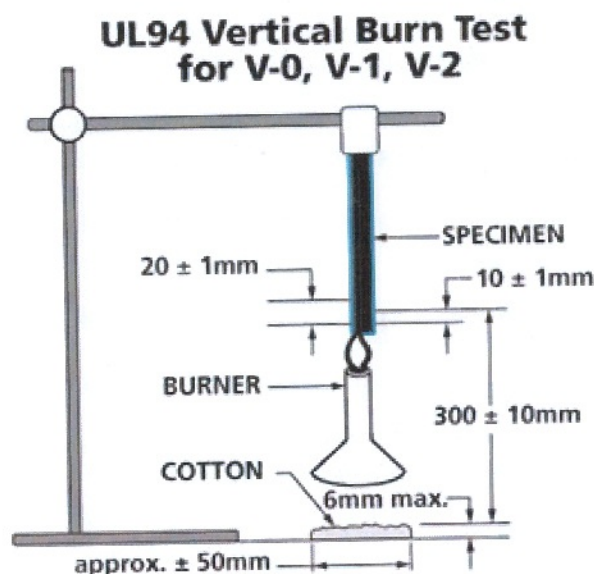
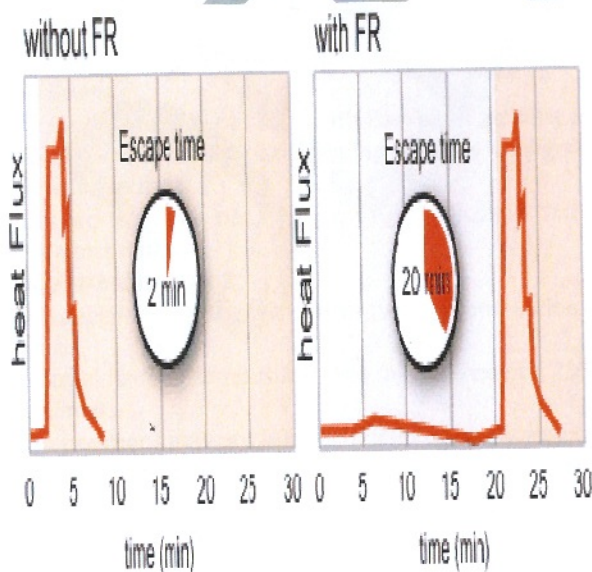
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Key Characteristics

Non Halogenated / halogenated Flame retardant; UL 94 & V2 rating

Low smoke emission, Low Loading; Low Toxicity

Product Code	Active Content	Dosage	Active Ingredient
Additive D10- 1084 Flame Retardent	Proprietary – 14 % Copolymer	25 to 35 % V2 rating	Proprietary Formulation



Disclaimer:

All information is given in good faith. Above all data obtained under standard conditions with our testing facilities, may vary under different conditions. It is recommended to test the above properties to finalize the use of the product for specific and particular applications.



UL94 V-0, V-1, V-2 FLAMMABILITY STANDARD

Specimen

Length 125 mm (5 in) x Width 13 mm (0.5 in) x Thickness [typically 0.7 mm (1/32 in) or 1.5 mm (1/16 in) or 3.0 mm (1/8 in)].

Procedure

A total of 10 specimens (2 sets) are tested per thickness.

Five specimens of each thickness are tested after conditioning for 48 hours at 23 degrees C and 50% RH.

Five specimens of each thickness are tested after conditioning for 7 days at 70 degrees C.

Each specimen is mounted with long axis vertical

Each specimen is supported such that its lower end is 10 mm above Bunsen burner tube.

A blue 20 mm high flame is applied to the center of the lower edge of the specimen for 10 seconds and removed. If burning ceases within 30 seconds, the flame is reapplied for an additional 10 seconds. If the specimen drips, particles are allowed to fall onto a layer of dry absorbent surgical cotton placed 300 mm below the specimen.

Requirements for V-0

The specimens may not burn with flaming combustion for more than 10 seconds after either application of the test flame.

The total flaming combustion time may not exceed 50 seconds for the 10 flame applications for each set of 5 specimens.

The specimens may not burn with flaming or glowing combustion up to the holding clamp.

The specimens may not drip flaming particles that ignite the dry absorbent surgical cotton located 300 mm below the test specimen.

The specimens may not have glowing combustion that persists for more than 30 seconds after the second removal of the test flame.

Requirements for V-1

The specimens may not burn with flaming combustion for more than 30 seconds after either application of the test flame.

The total flaming combustion time may not exceed 250 seconds for the 10 flame applications for each set of 5 specimens.

The specimens may not burn with flaming or glowing combustion up to the holding clamp.

The specimens may not drip flaming particles that ignite the dry absorbent surgical cotton located 300 mm below the test specimen.

The specimens may not have glowing combustion that persists for more than 60 seconds after the second removal of the test flame.

Requirements for V-2

The specimens may not burn with flaming combustion for more than 30 seconds after either application of the test flame.

The total flaming combustion time may not exceed 250 seconds for the 10 flame applications for each set of 5 specimens.

The specimens may not burn with flaming or glowing combustion up to the holding clamp.

The specimens can drip flaming particles that ignite the dry absorbent surgical cotton located 300 mm below the test specimen.

The specimens may not have glowing combustion that persists for more than 60 seconds after the second removal of the test flame.

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