Polyurethane foams are used commonly in industrial applications such as building sector, freezers, floor panels, refrigerators, sandwich panels and roofing materials. When polyurethane foam be exposed to heat (flame), they tend to flame/flameless combustion and easy flammability under some cases. Increasing reliability of these materials in the event of a fire is of great importance. At the same time, the flammability of these products influences both public health and the environment. So, for the purpose of improving this drawback, many commercial flame retardant additives are used at polyurethanes. However, these additives have some accompanying disadvantages which limit their use. In an effort to turn disadvantages to advantages, a relatively new mineral called huntite/hydromagnesite is being studied for its flame-retardant properties since the 1980s.

This review study discusses conventional flame retardant additives with huntite/hydromagnesite additives for some polymers. Flammability test analysis and the results are examined. Effect flame retardant of huntite/hydromagnesite which is used together with some polymers are described with results. The advantages and the disadvantages of huntite/hydromagnesite additives investigated with analyzing other flame retardant additives. Research’s results is discusses detail.

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