

# Avery Dennison Technical Bulletin 1.06

## Flammability of Avery Dennison Films

The flammability of a decal can vary depending on the nature of the facestock, adhesive, liner, ink used in processing and overlamine or clearcoat that is applied to the product for a final construction in the converting process.

Avery brand vinyl films are self-extinguishing and have been rated with a MSDS flammability of one (1).

The one (1) rating indicates the material will not serve as an ignition source and will burn only in the presence of an open flame.

Polyolefin construction materials (polypropylene and polyethylene) are slow burning materials that are not self-extinguishing.

Polyesters and polystyrenes melt and curl in the presence of open flame and will not burn.

Polymers used by Avery Dennison are engineered to include flame-retardants.

The film alone is not the only factor in the burning characteristics of a material. Adhesives, ink systems, varnishes or sealants used by print providers that may be solvent-based can produce a final product that is flammable if latent solvent is present.

Specific questions or concerns about flammability should be addressed on a product by product basis, which should include a complete specification of the films, adhesive, ink system, clear coat or varnish, sealant, and any other added component that makes the final construction used in a graphic application.

Avery Dennison Graphics Division has not invested in ASTM E84 testing for its film and adhesive components. This testing is used primarily for materials integral to a building's structure (i.e. insulation, ceiling tiles, dry wall, carpet). The ASTM E84 test examines the relative burning behavior of the material by examining the flame spread and smoke density. Products marketed by Avery Dennison Graphics Division are not recommended for the construction of buildings or other structures.

For further information, contact your local Avery Graphics representative.

