

FLAMMABILITY ASSESSMENT OF GREENFILL

Introduction

There are various test methods for assessing flammability of loosefill. We undertook our own in house test which was based on that described by BASF for Styrofil. This investigates the ease of ignition by applying a single flame source, namely a lit match.

Procedure

Approximately 1 litre each of GreenFill, polystyrene loosefill and crumpled brown paper were positioned on a level, clean surface. To each a lit match was placed on top and the degree of burning monitored with time and the results compared.

Results and comments

The paper ignited readily and burning was sustained.

The polystyrene melted and the fumes ignited emitting toxins. This was sustained.

The GreenFill smouldered or charred emitting self extinguishing carbon dioxide and water vapour.

If there was a fire in the vicinity then ultimately all materials will burn but the point at which this happens varies from material to material. The flash point for polystyrene is approx 260 degrees centigrade and the auto ignition point is in the order of 400 degrees centigrade depending on the brand. For GreenFill the smoulder temperature is over 200 degrees centigrade and over 390 degrees centigrade for the ignition point.





