

Abstract: Flammability Testing of Material (Adhesive) and Applications (Joint Filler)

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Adhesives are widely used in commercial aviation including aircraft cabins in quantities and locations that make them part of a fabricated part and consequently have to meet the current flammability testing requirements of FAR/CS 25.853 and Appendix F.

To qualify and certify a currently developed adhesive flammability tests including the Bunsen burner test, heat release test and smoke tests were conducted with the material (adhesive) and respective applications (joint filler, ditch and pot). To simulate realistic applications the adhesive was tested in different applications as being part of a honeycomb sandwich panel.

This presentation will discuss the flammability tests performed. Results of the flammability and mechanical properties will be presented.