

Engineering Consistent Flame Retardant Properties in Aviation Seat Upholstery Materials to Eliminate Program Risks

Dipesh Patel
E-Leather

Abstract:

For many years, the industry has had difficulties with passing flammability requirements of traditional leather seat cushion materials. This presentation will cover a new class of seat cover materials with the same appearance and feel of traditional leather, but without the natural variability of traditional leather. Since the flame retardancy properties are engineered in the material during design, flammability results are consistent and predictable. Since the first production, 5 years of production data has been generated to show consistency in burn data, independent on colour or texture of the material. Based on the presented data, EASA has granted the material similarity status, and a number of seat suppliers are using this successfully already. This has eliminated a significant risk and time delay for any new program.