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Smoke Component Yields from Bench-Scale Fire Tests: 1. Nfpa 269 ASTM E 1678

By NIST

Createspace. Paperback. Book Condition: New. This item is printed on demand. Paperback. 68 pages. Dimensions: 11.0in. x 8.5in. x 0.2in. A standard procedure is needed for obtaining smoke toxic potency data for use in fire hazard and risk analyses. Room fire testing of finished products is impractical, directing attention to the use of apparatus that can obtain the needed data quickly and at affordable cost. This report examines the first of a series bench-scale fire tests to produce data on the yields of toxic products in both pre-flashover and post-flashover flaming fires. The apparatus is the radiant furnace in NFPA 269 and ASTM E 1678. Test specimens were cut from finished products that were also burned in room-scale tests: a sofa made of upholstered cushions on a steel frame, particleboard bookcases with a laminated finish, and household electric power cable. Initially, the standard test procedure was followed, with a variation to reduce the contribution to the effluent of post-flaming pyrolysis. Subsequent variations in the procedure included cutting the test specimen into small pieces and performing the tests at a reduced oxygen volume fraction of 0.17. The yields of CO₂, CO, HCl, and HCN were determined. The yields of other...



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