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(54) Title: FOAM EXPANSION AGENT COMPOSITIONS CONTAINING Z-1,1,1,4,4,4-HEXAFLUORO-2-BUTENE AND THEIR USES IN THE PREPARATION OF POLYURETHANE AND POLYISOCYANURATE POLYMER FOAMS

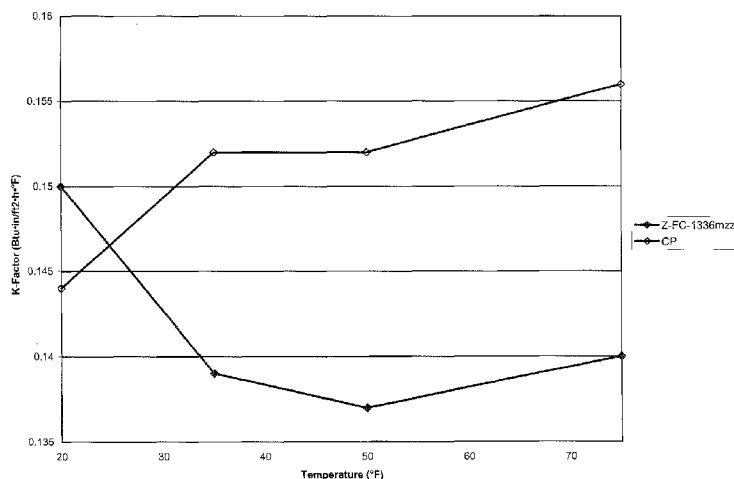


FIG. 1

(57) Abstract: A foam expansion agent composition is disclosed that includes Z-1,1,1,4,4,4-hexafluoro-2-butene and at least one high boiling point foam expansion agent present in an effective amount sufficient to produce a foam having a k-factor less than the k-factor of a foam produced using Z-1,1,1,4,4,4-hexafluoro-2-butene or the at least one high boiling point foam expansion agent alone at a given temperature. Also disclosed is a foam-forming composition that includes the foam expansion agent composition of this disclosure and an active hydrogen-containing compound having two or more active hydrogens. Also disclosed is a closed-cell polyurethane or polyisocyanurate polymer foam prepared from reaction of an effective amount of the foam-forming composition of this disclosure and a suitable polyisocyanate. Also disclosed is a process for producing a closed-cell polyurethane or polyisocyanurate polymer foam. The process involves reacting an effective amount of the foam-forming composition of this disclosure and a suitable polyisocyanate.