

Polyolefin-based flame retardant material

Disclosure Number

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Technology Summary

Flame retardant fibers from polyolefin fibers are developed. Invention discloses a method to produce flame retardant fibers from neat and recycled polyolefin-based fibers. We believe that these fibers would be low-cost flame retardant material for commodity applications. Current products are made from oxidized PAN fibers (\$5-6/lb). Our fibers could be profitably sold at \$2-4/lb. If recycled polyolefins are used price could be < \$1/lb. Similar flame retardant material may be developed for other lower-cost polyolefin fibers such as polypropylene, polystyrene, PVC, etc. Since the developed fibers exhibit 12-15% elongation, the filaments can be weaved to form flame retardant fabric.

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