

FLAME DEFENSE SERIES

FDPE94

The FDPE94 reactive synergist blend provides formulators with the ability to significantly reduce the cost of their flame retardant package. Designed specifically for formulations that are flame retarded with halogenated additives, FDPE94 can replace over 50% of the Antimony Trioxide synergist, while maintaining flammability performance. FDPE94 has been observed to reduce the flow and dripping of polymeric material during UL94 testing when compared to an equivalent version which incorporates only Antimony Trioxide as the synergist. This product is effective in a variety of polymer systems where a halogen is used as a part of the flame retardant package to partially replace Antimony Trioxide.

Typical Physical Properties

Color **white to off-white**

Specific Gravity **3.01**

Median Particle Size **2-3 μ m**

Decomposition Temperature **>550°F (>290°C)**

Formulation Ingredient	Control ATO	FDPE94	Control ATO	FDPE94
LLDPE	79.5	79.5		
Chlorinated Alkane	15	15		
Antioxidant	0.5	0.5		
ATO	5	2.2		
FDPE94 Synergist	0	2.8		
UL-94 Rating	V-2	V-2		

Contact MAT

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Health and Safety: Refer to the Safety Data Sheet
Packaging: 50 lb. plastic bags, 2500 lb. pallet weight

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