


FLAME DEFENSE SERIES FDPE94

Typical Physical Properties

Color	white to off-white
Specific Gravity	2.93
Median Particle Size (microns)	2-3
99% Less Than (microns)	25
Decomposition Temp.	>550°F (>290°C)

FDPE94 provides formulators of UL94 rated polyethylene compounds with options to reduce the cost of their flame retardant package. Designed specifically for formulations flame retarded with halogenated additives, the cost-efficient FDPE94 product can *replace over 50%* of the Antimony Trioxide (AO) synergist, while maintaining flammability performance. Additionally, FDPE94 has been observed to reduce the flow and dripping of the material during UL94 testing when compared to an equivalent version which incorporates only Antimony Trioxide as the synergist.

Polyethylene V2 UL94 Target			Control	Unburnt Sample	FDPE94 Version
Ingredient (%)	Control	FDPE94			
LLDPE	79.5	79.5			
Hordaresin NP70	15.0	15.0			
Antioxidant	0.5	0.5			
AO	5	2.2			
FDPE94 Synergist	0	2.8			
UL-94 Rating	V-2	V-2			

For further guidance it is recommended that customers contact matsolutions@rjmarshall.com to discuss their specific recipes.

HEALTH AND SAFETY: Refer to the Safety Data Sheet

PACKAGING: 50 lb plastic bags, pallet weight 2500 lbs.

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