



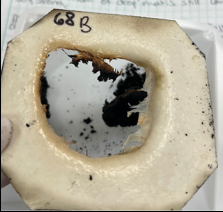
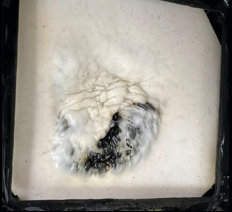
FLAME DEFENSE SERIES FD493

Typical Physical Properties

Color	white to off-white
Specific Gravity	3.85
Median Particle Size (microns)	2-3
Decomposition Temp.	>550°F (>290°C)

The FD493 reactive synergist blend has been specially formulated to serve as a 100% replacement of Antimony Trioxide in PVC compounds where the Antimony Trioxide loading is 5phr and above.

The product also has efficacy in other polymer types where the primary flame retardant is halogen-based.

Flammability Performance Summary			Burn Test*	
Formulation Ingredient (phr)	Control	FD493	Control	FD493
PVC Resin	100	100		
DINP	45	45		
Ca-Zn Stabilizer	6	6		
Stearic Acid	0.3	0.3		
ATH	60	60		
AD	5	0		
FD493 Synergist	0	5		
Limiting Oxygen Index %	35.0	35.5		

*PVC compound plaques burned in a horizontal plane for 9 minutes with a Bunsen Burner shows that the flame penetrates the PVC compound containing Antimony Trioxide. In contrast, the equivalent compound containing FD493 creates a robust char.

More detailed case studies are available for discussion on this product.

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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