

FLAME DEFENSE SERIES FD335

Typical Physical Properties

Color	white to off-white
Specific Gravity	4.07
Median Particle Size (microns)	2-3
99% Less Than (microns)	25
Decomposition Temp.	>550°F (>290°C)

The FD335 reactive synergist blend has been specially formulated to provide the maximum flame performance when used as an Antimony Trioxide replacement in PVC and other polymer systems where a halogenated flame retardant is used. Depending on the specific polymer compound formulation, it is typically possible to replace between 50 and 100% of Antimony Trioxide.

For further guidance it is recommended that customers contact the R.J. Marshall Company to discuss their specific recipes.

Flammability Performance Summary		
Formulation Ingredient (phr)	Control	FD335
PVC Resin	100	100
DINP	45	45
Ca-Zn stabilizer	6	6
Stearic Acid	0.3	0.3
ATH	60	60
AO Synergist	5	2.5
FD335 Synergist	0	2.5
Limiting Oxygen Index %	35	36.5
Peak Heat Release Rate (kW/m ²)	182.8 ± 17.3	63.8 ± 71.4
Total Heat Release (MJ/m ²)	31.8 ± 9.5	22.5 ± 9.6
Ignited Y/N	Y	N/Y*

*Samples are run in triplicate 2/3 did not ignite

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

HEALTH AND SAFETY: Refer to the Safety Data Sheet

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

April 2022