威科特瑞
发挥非金属资源无限潜能

Technical Data Sheet

TCP-ATH-80

Synergistic

Flame Retardant

Product Overview: TCP-ATH-80 is a composite flame retardant produced by separately surface-modifying aluminum hydroxide (ATH) and antimony trioxide (Sb_2O_3), followed by thorough mixing.ATH decomposes endothermically at around 220°C, absorbing heat and releasing water vapor, which dilutes flammable gases and oxygen. The resulting alumina forms a protective barrier on combustibles.Sb_2O_3, a fine white powder with a cubic crystal structure, acts synergistically with brominated flame retardants.The combination of ATH and Sb_2O_3 effectively enhances overall flame retardancy.

Product Metrics

project	Unit	Value/ Description
Appearance	_	white powder
Whiteness	%	≥95
Average Particle Size (D50)	μm	≤1
Average Particle Size (D97)	μm	≤5
Moisture	%	≤0.5
Antimony Trioxide	%	80
Aluminum Hydroxide	%	20
Antimony Trioxide purity (Sb_2O_3)	%	≥99.8

Application area

Widely used in general plastics, engineering thermoplastics, wire and cable sheathing and insulation materials, elastomers, as well as thermosetting plastics such as PVC, PP, PE, ABS, PS, PU, etc.

Product Packaging and Storage

Packaging: The product is packaged in 25kg/bag kraft paper woven bags with inner plastic moisture-proof bags.

Storage: Store in a dry, well-ventilated warehouse, avoiding moisture, rain, and direct sunlight to prevent product clumping and deterioration.

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