威科特瑞
发挥非金属资源无限潜能

Technical Data Sheet

TCP-999-90

Synergistic

Flame Retardant

Product Overview: TCP-999-90 is a product manufactured through specialized surface modification and activation processes, involving thorough mixing of antimony trioxide and high-quality talc powder. Although talc itself lacks flame- retardant properties, its silicon components can synergistically enhance brominated flame retardants. Antimony trioxide, a pure white fine powder with a predominantly cubic crystal structure, works in synergy with brominated flame retardants to boost their effectiveness. By combining talc and antimony trioxide, this product not only significantly improves flame retardancy but also reduces the required dosage of antimony trioxide.

Product Metrics

project	Unit	Value/ Description
Appearance	_	white powder
Whiteness	%	≥94
Average Particle Size (D50)	μm	≤1
Average Particle Size (D97)	μm	≤5
Moisture	%	≤0.5
Antimony Trioxide	%	90
Talc Powder	%	10
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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