威科特瑞
发挥非金属资源无限潜能

Technical Data Sheet

TCP-DBDPE-80

Synergistic

Flame Retardant

Product Overview: TCP-DBDPE-80 is a flame retardant product synthesized through a specialized surface treatment process using a blend of antimony trioxide and decabromodiphenyl ethane (DBDPE). DBDPE exhibits exceptional thermal stability, high bromine content, excellent UV resistance, low leachability, and near-complete insoluble in all solvents. Antimony trioxide, a pure white fine powder with a predominantly cubic crystal structure, can be effectively combined with brominated flame retardants to enhance their

Product Metrics

project	Unit	Value/ Description
Appearance	_	white powder
Whiteness	%	≥85
Average Particle Size (D50)	μm	1-2
Average Particle Size (D97)	μm	≤10
Moisture	%	≤0.5
Antimony Trioxide	%	80
Decabromodiphenyl Ethane	%	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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