威科特瑞
发挥非金属资源无限潜能

Technical Data Sheet

TCM-PBT-80

Synergistic

Flame Retardant

Product Overview: TCM-PBT-80 is an eco-friendly flame-retardant masterbatch based on highly activated antimony trioxide with PBT as the carrier. It is produced through specialized twin-screw extrusion and granulation. The product features fine texture and high purity, offering excellent material compatibility and processing performance. Its formulation improves production efficiency and reduces processing time, while achieving equivalent flame-retardant effects with lower antimony trioxide usage.

Performance Indicators

Item	Appearance	Antimony Trioxide Content	Carrier Resin
Unit	—	%	—
Parameter	White granules	80	PBT

Antimony Trioxide Specifications

Item	Unit	Parameter
Appearance	_	White powder
Whiteness	%	≥95
Average Particle Size (D50)	μm	≤1
Antimony Trioxide (Sb_2O_3)	%	≥99.8
Lead Oxide (PbO)	%	≤ 0.05
Arsenic Trioxide (As_2O_3)	%	≤ 0.05
Copper Oxide (CuO)	%	≤0.005
Iron Oxide (Fe_2O_3)	%	≤0.003

Applied Range

For flame retardancy of plastics such as PBT and PA, it is produced by uniformly mixing with the matrix resin and various additives.

Usage Method

This series of masterbatches generally does not require drying before use and can be directly mixed with composite resins and various processing aids. If the masterbatch becomes damp during transportation or storage, it should be dried prior to use.

Pack: Net weight per package: 25 kg, packaged in paper-plastic composite bags

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