

Tetrabromobisphenol S Bis(dibromopropyl Ether) (TBBP-DBPE)

Brominated sulfone-ether additive for selected polyolefin, styrenic and rubber flame-retardant systems.

CAS No. 42757-55-1	EC / List No. 255-929-6	Transport Non-dangerous goods
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Product Information

TBBP-DBPE is tetrabromobisphenol S bis(2,3-dibromopropyl ether), CAS 42757-55-1. Its sulfone-containing structure distinguishes it from tetrabromobisphenol A ethers. Use the chemical identity when comparing abbreviated trade names for brominated polymer additives.

Specifications

Parameter	Specification
Appearance	White powder
Melting point	≥110 °C
Bromine content	≥64.0 %
Loss on drying	≤0.30 %
Whiteness, Hunter	≥90

Supply specifications follow the local 2026 ZXCHEM TDS and apply to the stated commercial grade. Test suitability in the intended process and complete formulation.

Typical Properties

Property	Typical Value
Molecular formula	C18H14Br8O4S
Molecular weight	965.60 g/mol

Applications

Polyolefin and styrenic compounds: Brominated additive for selected PP, PE and PS packages. Test dispersion, process colour, stability and complete-compound fire performance.

ABS and rubber formulations: Component for selected flame-retardant packages. Assess physical-property retention, compatibility and cure or thermal-processing response.

Electrical polymer materials: Additive for selected specialty polymer compounds. Test ageing, electrical and mechanical properties and finished-material flame performance.

Packaging / Storage

Item	Information
Packing	25 kg lined bags / 1,000 kg bulk bags
Storage	Keep sealed in a cool, dry, ventilated warehouse. Protect from moisture, heat and contamination; store away from incompatible chemicals.
Handling	Use enclosed powder feeding or local extraction. Wear suitable protective gloves, eye protection and work clothing; avoid dust inhalation and direct contact. Provide controls for fumes during hot processing.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
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