

Ethylenebistetrabromophthalimide (ZXFR93W)

High-bromine imide additive development in selected thermoplastics and elastomers.

CAS No. 32588-76-4	EC / List No. 251-118-6	Transport Non-dangerous goods
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Product Information

Ethylenebistetrabromophthalimide, offered here as ZXFR93W, is a brominated imide additive with CAS 32588-76-4. Its aromatic brominated imide structure differs from tetrabromophthalic anhydride and should be identified by CAS when comparing product names.

Specifications

Parameter	Specification
Appearance	White crystalline powder
Whiteness	≥87 %
Bromine content	≥65.5 %
Acid value	≤0.10 mg KOH/g
Volatile matter at 120°C	≤0.60 %
Volatile matter at 315°C	≤1.20 %
Median particle size, D50	≤5 µm
Free bromine	≤10 mg/kg
TGA, typical	Approximately 450 °C

Supply specifications follow the local ZXCHEM TDS. Values apply to the stated grade; complete-formulation flame performance requires testing.

Typical Properties

Property	Typical Value
Molecular formula	C ₁₈ H ₄ Br ₈ N ₂ O ₄
Molecular weight	951.47 g/mol

Applications

Engineering thermoplastics: Additive for selected PBT, PET and PC packages. Evaluate dispersion, processing temperature, colour and mechanical-property retention.

Polyolefin and styrenic compounds: Component for selected polyolefin and HIPS flame-retardant packages. Assess compatibility, melt flow and full-compound fire-test performance.

Elastomers and electrical polymer parts: Additive for selected elastomer and electrical formulations. Verify cure response, ageing, electrical properties and the required finished-material tests.

Packaging / Storage

Item	Information
Packing	25 kg paper bags / 50 kg plastic drums
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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