

Brominated Polystyrene (BPS)

Polymeric brominated flame-retardant additive for selected polyamide and engineering polyester systems.

CAS No. 88497-56-7	EC / List No. Not assigned in the matched polymer SDS	Transport Non-dangerous goods
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Product Information

Brominated polystyrene, BPS, CAS 88497-56-7, is a brominated polymeric additive used in selected engineering plastic flame-retardant packages. Its polymer structure distinguishes it from small-molecule brominated additives and from lightly brominated synthesis-support resins.

Specifications

Parameter	Specification
Appearance	Off-white powder
Bromine content	66–68 %
Volatile matter	≤0.30 %
Softening range	210–250 °C
Thermal-stability range, stated TDS	260–320 °C

Supply specifications follow the stated ZXCHEM TDS. Select the grade against the intended process and evaluate the complete formulation.

Typical Properties

Property	Typical Value
Molecular formula	Brominated polymer
Molecular weight	Variable polymer molecular weight

Applications

Polyamide compounds: Polymeric brominated additive for selected PA formulations. Evaluate drying, feeding, melt stability, colour and finished-compound fire performance.

PBT and PET compounds: Package ingredient for engineering polyester development. Assess compatibility, processing stability and retention of mechanical and electrical properties.

Engineering resin development: Compare the selected BPS grade with the complete resin and synergist package. Validate dispersion, ageing and the intended fire-test result.

Packaging / Storage

Item	Information
Packing	25 kg 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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