

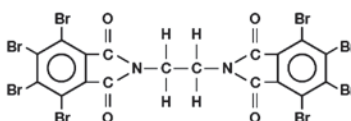
# SAYTEX® BT-93

## Flame Retardant

### DESCRIPTION

ethylenebistetra bromophthalimide

SAYTEX® BT-93 flame retardant is a unique additive that combines stable, aromatic bromine with an imide structure.



### APPLICATIONS

SAYTEX® BT-93 flame retardant provides premium performance in a wide range of applications. It finds use in polyolefins, high-impact polystyrene (HIPS), thermoplastic polyesters (PBT, PET, etc.), polycarbonate and elastomers.

Additional information on the use of SAYTEX® BT-93 flame retardant may be found in the following technical bulletins produced by Albemarle:

- UV-Stable High-Impact Polystyrene Based on SAYTEX® BT-93 flame retardant
- Flame Retardants High-Impact Polystyrene
- Flame Retarding Elastomers
- Introduction to Flame Retarding Polyolefins

### BENEFITS AND FEATURES

SAYTEX® BT-93 flame retardant has outstanding thermal and UV stability. It is the flame retardant of choice in high-impact polystyrene (HIPS) formulations where the highest degree of UV stability is required. Its thermal stability allows use in engineering resins like polyesters and polyamides. SAYTEX® BT-93 flame retardant is also non-blooming. This feature allows use in such critical applications as polyolefin films where good heat sealability is required. Its excellent wet electrical properties also make it ideal for wire and cable applications.

### TYPICAL PROPERTIES\*

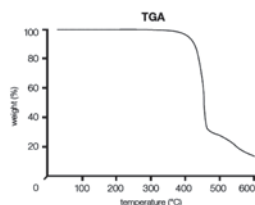
% Bromine (theoretical)	67.2
Melt range (°C)	456
Molecular weight	951.5
Appearance/form	light yellow /powder
Specific gravity	2.77
Dielectric constant (1 MHz)	1.42
Dissipation factor (1 MHz)	0.001
Bulk density (Hosokawa powder tester, lb/ft <sup>3</sup> , [Kg/m <sup>3</sup> ])	
Packed	54 [860]
Aerated	38 [610]
Average particle size (μ)	3.05
Refractive index	1.77

## TYPICAL PROPERTIES\*

Continued

Solubility (weight % at 25°C)	
Water	< 0.01
Acetone	< 0.01
Methanol	< 0.01
Toluene	< 0.01
TGA (TA Instrument model 2950, 10°C/min, under N <sub>2</sub> )	
1% weight loss, °C	324
5% weight loss, °C	419
10% weight loss, °C	441
50% weight loss, °C	473
90% weight loss, °C	> 600

\*These properties are typical but do not constitute a specification either in part or as a whole. Specification data is available on request from sales, customer service or customer technical service.



## SHIPPING INFORMATION

**Transportation classification:** not regulated for transportation

**Harmonized tariff number:** 2925.19

Packaging and minimum order information is available from sales or customer service.

## CHEMICAL REGISTRATION NUMBER

**CAS:** 32588-76-4

**EINECS:** 2511186

**MITI:** 5-5550

## RESPONSIBLE CARE

Albemarle is committed to the safety and well-being of our customers, employees and the community at large. Safety data sheets (SDS) are available upon request.



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