

SAYTEX® 102E FLAME RETARDANT

Description

Decabromodiphenyl Oxide

SAYTEX 102E flame retardant is a high-purity grade of decabromodiphenyl oxide containing a high level of aromatic bromine.

Applications

SAYTEX 102E flame retardant provides a cost effective solution to flame retardant formulations in a wide range of applications. It is used in elastomers, wire & cable, textile coatings, business machines and television cabinets formulations. SAYTEX 102E flame retardant is particularly effective in polyolefins, styrenic, polyamide and polyester resins.

Additional information on the use of SAYTEX 102E flame retardant may be found in the following Technical Bulletins, which are available from Albemarle:

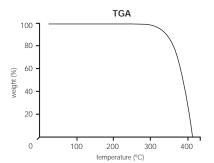
- Flame Retarding Wire & Cable
- Flame Retarding High Impact Polystyrene
- Flame Retarding Polyamides
- Decabromodiphenyl Oxide: Toxicology and Risk Assessment
- SAYTEX 102E flame retardant: Regulatory Issues
- Flame Retardant Comparison in Glass Filled PBT
- Introduction to Flame Retardant Polyolefins
- Flame Retarding Elastomers
- Toxicology of SAYTEX 102E flame retardant
- Toxicology and Risk Assessment of Selected Brominated Flame Retardants: Brominated Diphenyl Oxides

Benefits and Features

SAYTEX 102E flame retardant is a prime candidate for most applications due to its overall performance and cost effectiveness. Its good thermal stability makes it a candidate for applications in which resistance to high temperature is required. Because of its high bromine content SAYTEX 102E flame retardant is highly effective in achieving desired levels of flame retardancy. SAYTEX 102E flame retardant has been extensively studied to determine its toxicological character and its safety has been demonstrated through many years of use.

Typical Properties

% Bromine (theoretical)	83.3
Vlelt range (°C)	304
Molecular weight	959.2
Appearance / form	white / powder
Specific gravity	3.25
Dielectric constant (1 MHz)	1.19
Dissipation factor (1 MHz)	0.20
Bulk density (Hosokawa powder tester, lb/ft³, [kg/m³])	
Packed	91 [1455]
Aerated	42 [667]
Average particle size (μ)	
Refractive index	1.84
Solubility (weight % at 25°C)	
Water	< 0.01
Acetone	
Methanol	< 0.01
Toluene	0.76
ΓGA (TA Instruments, model 2950, 10°C/min under N ₂)	
1% weight loss	
5% weight loss	
10% weight loss	344°C
50% weight loss	389°C
90% weight loss	408°C



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: 2909.3038

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

Chemical Registration Numbers

CAS: 1163-19-5 EINECS: 2146049 MITI: 3-2846

Responsible Care

Albemarle is committed to the safety and well-being of our customers, employees and the community at large. Material Safety Data Sheets (MSDS) are available upon request from the offices listed below.

The information presented herein is believed to be accurate and reliable, but is presented without guarantee or responsibility on the part of Albemarle Corporation. It is the responsibility of the user to comply with all applicable laws and regulations and to provide for a safe workplace. The user should consider any health or safety hazards or information contained herein only as a guide, and should take those precautions which are necessary or prudent to instruct employees and to develop work practice procedures in order to promote a safe work environment. Further, nothing contained herein shall be taken as an inducement or recommendation to manufacture or use any of the herein materials or processes in violation of existing or future patents.



AMERICAS EUROPE ASIA PACIFIC 451 Florida Street • Baton Rouge, Louisiana 70801-1765 • Phone: 225-388-7402 • Toll-Free: 800-535-3030 • Fax: 225-388-7848 Parc Scientifique Einstein • Rue du Bosquet 9 • B-1348 Louvain-la-Neuve Sud, Belgium • Phone: 32-10-48-1711 • Fax: 32-10-48-1717 111 Somerset Road #13-03 • Singapore 238164 • Phone: 65-732-6286 • Fax: 65-737-4155

16th Floor, Fukoku Seimei Building • 2-2, Uchisaiwaicho, 2-Chome • Chiyoda-ku, Tokyo 100, Japan • Phone: 81-3-5251-0791 • Fax: 81-3-3500-5623

China World Tower, Room 1317 • No. 1 Jian Guo Men Wai Avenue • Beijling 100004 China • Phone: 86-10-6505-4153 • Phone: 86-10-6505-4154 • Fax: 86-10-6505-4150