

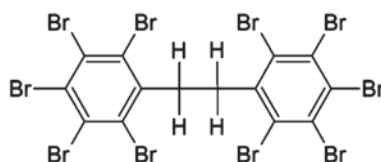
SAYTEX® 8010

Flame Retardant

DESCRIPTION

Ethylene-1,2-bis(pentabromophenyl)

SAYTEX® 8010 flame retardant is a non-diphenyl oxide based product containing a high level of aromatic bromine.



APPLICATIONS

SAYTEX® 8010 flame retardant can be used in a wide range of high performance applications. Specifically, it finds use in styrenic polymers, engineering resins, wire & cable and elastomers.

Additional information on the use of SAYTEX® 8010 flame retardant may be found in the following technical bulletins produced by Albemarle:

- Flame Retarding High Impact Polystyrene Extrusion Stability Study
- Flame Retarding High Impact Polystyrene
- Flame Retarding Polyamides
- SAYTEX® 8010 Flame Retardant and the Proposed German Dioxin Ordinance
- Toxicology of SAYTEX® 8010 Flame Retardant
- Evaluation of Flow Aids in HIPS Containing SAYTEX® 8010 Flame Retardant
- Introduction to Flame Retarding Polyolefins
- Flame Retarding Elastomers
- SAYTEX® 8010 Flame Retardant: A New and Versatile Flame Retardant for Styrenics

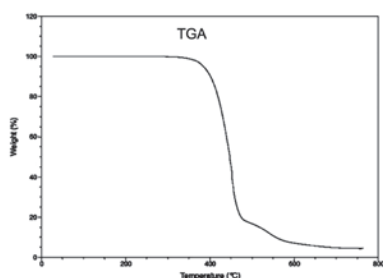
BENEFITS AND FEATURES

SAYTEX® 8010 flame retardant has very good thermal stability and high bromine content, which makes it a prime candidate for high temperature applications. It exhibits good UV resistance and is therefore suitable for use in many applications requiring color stability. Because of its very good thermal stability and low blooming characteristics, SAYTEX® 8010 flame retardant is suitable for use in systems where recycling is anticipated. SAYTEX® 8010 flame retardant is not acutely toxic, teratogenic or harmful to fish. SAYTEX® 8010 flame retardant can be used in the formulation of products meeting European dioxin ordinances.

TYPICAL PROPERTIES*

% Bromine (theoretical)	82.3
Initial melting point (by DSC), °C	350
Molecular weight	971.2
Appearance/form	White/powder
Specific gravity	3.25
Dielectric constant (18 GHz in LLDPE resin)	2.37
Dissipation factor (10 GHz)	0.001

TYPICAL PROPERTIES*



Bulk density (Hosokawa powder tester, lb/ft ³ , [kg/m ³])	
Packed	110 [1760]
Aerated	54 [868]
Average particle size (μ)	5
Refractive index	1.864
Solubility (weight % at 25 °C)	
Water	< 0.01
Acetone	< 0.01
Methanol	< 0.01
Toluene	< 0.01
Chlorobenzene	< 0.01
Methylene Dibromide	< 0.01
Dimethyl Formamide	< 0.01
TGA (TA instrument Q500, 10 °C/min, under N ₂)	
1% weight loss, °C	347
5% weight loss, °C	384
10% weight loss, °C	401
50% weight loss, °C	446
90% weight loss, °C	554

*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

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

Transportation Classification: Not regulated for transportation

CHEMICAL REGISTRATION NUMBER

CAS: 84852-53-9
EINECS: 84852-53-9
MITI: 4-1735

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.



NORTH AMERICA Albemarle: Rockwood Lithium Inc. • 4350 Congress Street, Suite 700 Charlotte, NC 28209, USA • Phone: +1 980 299 5700

EUROPE Albemarle: Rockwood Lithium GmbH • Industriepark Höchst, Gebäude G 879, 5926 Frankfurt am Main, Germany • Phone: +49 69 40 12 60

LATIN AMERICA Albemarle: Rockwood Litio Ltda. • Isidora Goyenechea Nro. 3162, Oficina 202, Las Condes • Santiago, Chile • Phone: +56-55-2351008

ASIA PACIFIC Albemarle Management (Shanghai) Co. Ltd. • Building 6, A-Sun Science & Technology Park, Lane 399 Shengxia Road
Pudong, Shanghai 201210, China • Phone: + 86-21-6103-8666

©2017 Albemarle Corporation. ALBEMARLE® and SAYTEX® are trademarks of Albemarle Corporation. www.albemarle.com

The information presented herein is believed to be accurate and reliable, but is presented without guarantee or responsibility on the part of Albemarle Corporation and its subsidiaries to ensure the accuracy or reliability of the information. 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 all information contained herein only as a guide, and should take precautions that the user considers necessary or prudent to promote a safe work environment, such as considering all applicable health and safety hazards, developing safe work practice procedures and properly instructing employees. Further, nothing contained herein shall be taken as an inducement or recommendation to manufacture or use any of the materials or processes mentioned herein in violation of existing or pending patents.