

FLAME RETARDAND: 2000B

Description

2000B is a flame retardant that can be used as a substitute for Antimony Trioxide (Sb_2O_3) in formulations of ABS, HIPS, PP, PBT, PA, PVC, and other polymer materials. In addition to its standalone flame-retardant properties, 2000B also acts as a synergist when used alongside halogenated flame retardants, enhancing overall flame retardancy.



Exhibits high thermal stability



Good smoke suppression and anti-dripping performance.



Whiteness ≥ 95

Technical Data

Property	Unit	Typical Value
Appearance	N/A	White Powder
Moisture	wt /%	≤ 0.5
Decomposition Temp.	$^{\circ}C$	≥ 350
Particle Size	μm	≤ 5.0
Cd	N/A	Not Detected

Typical Applications

1. Glass fiber-reinforced PBT

2000B can directly replace Antimony Trioxide (Sb_2O_3) in 30 wt% glass fiber-reinforced PBT without altering the formulation, processing conditions, or usage levels. It provides excellent flame retardancy and maintains robust mechanical properties.

Components	Sb ₂ O ₃ Basis (wt %)	2000B Drop-in Substitute (wt %)
PBT	53.2	53.2
Short Fiberglass	30	30
Brominated Epoxy Resin	13	13
Sb ₂ O ₃	3	-
2000B	-	3
Lubricant/Antioxidant	0.8	0.8
Total	100	100

Property	Testing Protocol	Unit	Performance Results	
Tensile Strength	GB/T 1040-06	MPa	134	135
Flexural Modulus	GB/T 9341-08	MPa	8236	8228
Notch Impact Strength	GB/T 1803-1-08	kJ/M ²	9.08	9.37
Flame Resistance	UL94	1.6 mm	V-0	V-0
		3.2 mm	V-0	V-0

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2. Glass fiber-reinforced PA6

2000B can directly replace Antimony Trioxide (Sb_2O_3) in 30 wt% glass fiber-reinforced PA6 without altering the formulation, processing conditions, or usage levels. It provides excellent flame retardancy and maintains robust mechanical properties.

Components	Sb ₂ O ₃ Basis (wt %)	2000B Drop-in Substitute (wt %)
PA6	51.4	51.4
Short Fiberglass	30	30
DBDPE	14	14
Sb ₂ O ₃	4	-
2000B	-	4
Lubricant/Anti-oxidant	0.6	0.6
Total	100	100

Property	Testing Protocol	Unit	Performance Results	
Tensile Strength	GB/T 1040-06	MPa	148	147
Flexural Modulus	GB/T 9341-08	MPa	9765	9813
Notch Impact Strength	GB/T 1803-1-08	kJ/M ²	10.2	10.1
Flame Resistance	UL94	1.6 mm	V-0	V-0
		3.2 mm	V-0	V-0



Disclaimer

The property values presented herein are typical values and are not to be interpreted as specification limits. The information in this document is believed to be accurate and reliable as of the date of publication; however, it is provided for general guidance only. This document is intended to support safe handling, use, processing, storage, transportation, and disposal of the product, and does not constitute a warranty or guarantee of any kind—express or implied—including, without limitation, any warranty of merchantability or fitness for a particular purpose. Users are responsible for determining the suitability of the product for their specific applications and for ensuring that its use complies with all applicable safety and legal requirements.

Regulatory Notes

This product is manufactured in compliance with applicable regional chemical control regulations. Regulatory status may vary by jurisdiction, and users should verify compliance with local requirements prior to use. Certification for specific applications (such as food contact, potable water, medical, or electrical uses) is not implied and must be confirmed separately upon request. Users are responsible for ensuring that the product, its additives, and any processing aids meet all relevant regulatory and end-use obligations.

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