

## FLAME RETARDAND: FRX – A206

### Description

**FRX-A206** is a modified organophosphorus flame retardant designed for use in flame-retardant PBT formulations. It delivers excellent flame resistance and mechanical performance, while offering key advantages such as low required dosage, low material density, and reduced smoke generation. At equivalent dosage levels, FRX-A206 matches the performance of leading industry benchmark grades.



No plate-out under high temperature/humidity.



Better mechanical properties.



Stronger flame retardant efficiency, lower dosage levels.

### Technical Data

Property	Unit	Typical Value
Bulk Density	gram/cm <sup>3</sup>	0.4 – 0.8
Moisture	wt %	≤ 0.5
Phosphorus Content	wt %	≥ 20.0



### Typical Applications: Glass Fiber-reinforced PBT

A typical dosage of 14 wt% FRX-A206 in a 30 wt% glass fiber-reinforced PBT formulation delivers flame retardancy and mechanical performance comparable to global benchmark grades at the same loading level.

Components	FRX-A206 (wt %)
PBT	55.1
Short Glass Fiber	<b>30</b>
Toughening Agent	0.6
FRX-A206	<b>14</b>
Antioxidant	0.3
Total	100

Property	Testing Protocol	Unit	Performance Results
Tensile Strength	GB/T 1040-06	MPa	102.5
Flexural Modulus	GB/T 9341-08	MPa	9262
Notch Impact Strength	GB/T 1803-1-08	kJ/M <sup>2</sup>	7.8
Flame Resistance	UL94	1.6 mm	V-0
		3.2 mm	V-0

### Disclaimer

鑫泰合化工（广东）有限公司

SINTAH CHEMICALS (GUANGDONG) COMPANY LIMITED

工厂地址: 广东省河源市东源县仙塘镇蝴蝶岭汇通工业园

总部: 广州市黄埔区瑞吉二街 49 号京广协同创新中心 1 栋主楼 13 楼

Factory: Hudieling Industrial Park, Heyuan, Guangdong, China

Headquarters: 13/F, Building 1, Jingguang Collaborative Innovation Center, Guangzhou, China.

[enquiry@sintahchemicals.com](mailto:enquiry@sintahchemicals.com) <https://www.sintahchemicals.com>



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### 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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[enquiry@sintahchemicals.com](mailto:enquiry@sintahchemicals.com) <https://www.sintahchemicals.com>