The Role of ABS Flame-Retardant Granules in Welded Fiber Reinforced Pads

Overview

Flame-retardant ABS granules are specifically engineered to delay ignition, slow down the spread of fire, and reduce the risk of toxic smoke. Here's the data that demonstrates how these materials improve fire safety: Indicates the material can extinguish flames quickly, reducing. Inclusion in an NLM database does not imply endorsement of, or agreement with, the contents by NLM or the National Institutes of Health. In the present work, the effectiveness of four non-halogenated flame retardants (FR) (aluminium trihydroxide (ATH). National Engineering Research Center of Flame Retardant Materials, School of Materials Science & Engineering, Beijing Institute of Technology, Beijing 100081, China Qiushi College, Beijing Institute of Technology, Beijing 102488, China Author to whom correspondence should be addressed. Select a product number from the table below to view a product data sheet for these materials using acrylonitrile butadiene styrene as the base resin. 699X numbered products are our proprietary formulations.

Article Content

Dec 01, 2025

Development of Halogen-Free Flame Retardant Acrylonitrile ...

We aimed to use halogen-free flame-retardant additives in our study to improve the flame-retardant properties of ABS. It was aimed to achieve V0 rating at 1.5 mm thickness, LOI value higher ...

Apr 30, 2026

Development of Halogen-Free Flame Retardant Acrylonitrile ...

The effects of different flame treatment processes on flame performance, smoke suppression, thermal property, and surface micrographs of flame retardant FWPC were investigated.

Sep 08, 2025

Flame Retardant Acrylonitrile Butadiene Styrene (ABS) Compounds

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These composites have been characterized for mechanical, thermal and flame retardancy properties. The modulus values improved while tensile ...

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Cooperative Effect of Chemical and Physical Processes for Flame ...

Based on this, the present research aims to study for the first time the effect of environmentally friendly FR additives in a recycled acrylonitrile-butadienestyrene (rABS) material.

May 02, 2026

Flame-retardant fiber composites: synergistic effects of additives on ...

The synergistic effects of flame-retardant additives play a crucial role in enhancing the fire performance of fiber-reinforced composites, including laminated structures.

Jan 23, 2026

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What flame retardants are available for ABS?

The choice of flame retardants for acrylonitrile butadiene styrene (ABS) depends on a variety of factors. Alfa Chemistry answers customers which flame retardants can be used in ABS, and recommends ...

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Improving the fracture toughness, flame retardancy and smoke ...

Acrylonitrile-butadiene-styrene copolymer (ABS) is widely used in structural parts owing to its impressive mechanical properties. However, a delicate balance between flame retardancy and ...

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Mechanical and flame retardant characteristics of PC/ABS composites ...

These composites have been characterized for mechanical, thermal and flame retardancy properties. The modulus values improved while tensile strength and elongation reduced as the ...

Jan 16, 2026

How Flame-Retardant ABS Granules Improve Product ...

In this article, we will explore how flame-retardant ABS granules contribute to safer products and their growing role in industries that require high-performance materials.

Contact Us

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