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# Flame Retardant Polyurethane Wheels

Title	Flame Retardant Polyurethane Wheels
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## Description

In the modern industrial landscape, safety and durability are the two foremost dimensions across many sectors. Ranging from specialized components to a standard configuration,



## What is a Flame Retardant Polyurethane Wheel?

Flame retardant polyurethane wheels are engineered from specially formulated materials that do not burn. They act as a barrier, preventing the material from acting as fuel for fire spread, causing it to burn immediately, preventing the material from

### Core Technical Advantages

#### 1. Superior Fire Safety (UL 94 V-0 Standard)

High performance flame retardant wheels typically comply with the UL 94 V-0 standard, which is the highest level of fire safety for plastics. This makes them ideal for use in confined spaces or warehouses storing flammable goods.

#### 2. Intumescent Char Protection Mechanism

When exposed to high temperatures or open flames, this specialized polyurethane material undergoes a chemical reaction that causes it to char and form a protective layer. This layer releases smoke density and toxicity, buying critical time for evacuation.

#### 3. Preservation of Mechanical Properties

Unlike standard fire-resistant plastics, these wheels enhance fire safety while retaining the classic mechanical advantages of polyurethane. **High Load-Bearing Capacity:** Capable of supporting several tons of static and dynamic pressure.

**Superior Abrasion Resistance:** High durability translates to longer replacement cycles and lower maintenance costs.

**Vibration and Floor Protection:** The plastic nature of the material effectively absorbs vibrations and prevents damage to facility flooring.

### Key Application Scenarios

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## Automated Warehousing & AGV/AMR Robotics

In 2017, automated logistics centers, lithium battery-powered robots (AGV/AMR) carry a from spreading across picking systems via mobile equipment, even a potential fire

## Mining & Underground Facilities

Underground environments demand extreme controls effectiveness regarding flame retardancy and thermal exposures while eliminating the hazards

## Aerospace & Rail Transit

Whether for aircraft tending equipment or rail maintenance, Flame retardancy is the must essential "entry ticket" for components in these sectors.

## Conclusion

A flame retardant not only protects the product, but also provides a reliable mobility solution for the world's most demanding work environments.

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