# HOFNIL-FR 264

HOFNIL-FR 264 is a blend of halogen-free intumescent flame retardant specifically designed for use in polyolefins, particularly polypropylene (PP) and its copolymers. This white, odorless, and tasteless powder is known for its high efficiency and environmental safety. It is often utilized in conjunction with other flame retardants such as Melamine Cyanurate (MCA) or Melamine Polyphosphate (MPP) to enhance its flame-retardant properties. The intumescent mechanism of HOFNIL-FR 264 allows it to form a protective char layer when exposed to heat, thereby preventing the spread of flames and reducing the release of toxic gases. Its nitrogen and phosphorus composition contributes significantly to its effectiveness, making it a preferred choice for applications requiring stringent fire safety standards.

**PRODUCT PROPERTIES**
**Product Name:** HOFNIL - FR 264
**Product Code:** FR 264

| TECHNICAL PARAMETERS | | |
|---|---|---|
| **S. NO.** | **PARAMETERS** | **SPECIFICATION** |
| 1. | Appearance | White Powder |
| 2. | Moisture | ≤ 0.5 |
| 3. | Nitrogen (w/w %) | 10.0-12.0 |
| 4. | P Content (w/w %) | 23.0-25.0 |
| 5. | Decomposed Temp ($^0$C) | >280 |
| 6. | Average particle size (um) | 5-10 |

**Advantages of HOFNIL - FR 264:**

- Polypropylene (PP) and copolymers

  - Automotive Parts: Used in the manufacturing of various automotive components to enhance fire safety.
  - Electrical Appliances: Incorporated into housings and components of electrical appliances to meet fire safety standards.
  - Textiles: Applied in the production of flame-resistant textiles and fibers.

- Polyethylene (PE):

  - Construction Materials: Utilized in building and construction materials such as insulation foams and panels to improve fire resistance.
  - Packaging: Added to packaging materials that require enhanced fire safety features.

- Ethylene Propylene Diene Monomer (EPDM):

- Seals and Gaskets: Used in the production of flame-resistant seals, gaskets, and weather stripping in automotive and industrial applications.
- Roofing Membranes: Incorporated into EPDM roofing membranes to improve their fire resistance.

• Thermoplastic Elastomers (TPE):

- Consumer Goods: Used in the manufacturing of various consumer goods that require flame retardancy, such as toys, footwear, and sporting goods.
- Industrial Components: Applied in industrial components and parts that need to meet stringent fire safety regulations.

• Electronics and Electrical Components:

- Cable Insulation: Used in the insulation of electrical cables and wires to prevent fire hazards.
- Connectors and Switches: Incorporated into connectors, switches, and other electrical components to enhance fire safety.

• Composite Materials

- Transportation: Used in composite materials for transportation industries, including automotive and aerospace, to improve fire resistance.
- Marine Applications: Applied in marine components and materials to enhance fire safety on boats and ships.

• Adhesives and Sealants:

- Construction: Used in adhesives and sealants for construction applications that require flame retardancy.
- Automotive: Incorporated into automotive adhesives and sealants for enhanced fire safety.

**Please Note:** We are manufacturing other grades of HOFNIL -FR, blends, and surface coated FR as well. We can provide technical data or assistance in order to make better FR for any kind of material.

For further information, please contact manufacturer:

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