

TECHNICAL DATA SHEET

HOFNIL-63GA

(EFFICIENT NON-HALOGEN FR FOR NYLON-6/66 GLASS FILLED APPLICATION)

HOFNIL-63A is a high-performance engineering polymer designed for applications requiring superior mechanical strength, dimensional stability, and enhanced resistance to high temperatures. This innovative material is designed for Nylon-6 (PA-6), reinforced with glass fibers and excellent flame-retardancy. The result is a material that exhibits excellent mechanical properties, improved chemical resistance, and the ability to withstand extreme conditions, while meeting stringent fire safety standards.

PRODUCT PROPERTIES

Product Name: HOFNIL-63A

Product Code: 63A

TECHNICAL PARAMETERS		
S.NO.	PARAMETERS	SPECIFICATION
1	Appearance	White Powder
2	Phosphorus Content, w/w %	20-23
3	Water Content	≤0.5%
4	Density (g/cm ³)	1.50g/cm ³
5	Decomposing Temp (°C)	≥350 °C
6	Particle Size (D 50)	10-13 microns
7	Dosage for PA6-30GF	18-19%

Usage: For Halogen Free Flame Retardant Nylon-6 & Nylon-66 reinforced with 30% glass fiber filled compounds

Advantages of HOFNIL- 63A:

High strength: Provides excellent mechanical properties and durability.

Flame resistance: Complies with UL94 V-0 standards for fire safety.

Thermal stability: Withstands high temperatures, up to 350°C continuously.

Chemical resistance: Resists oils, solvents, weak acids, and bases.

Dimensional stability: Maintains shape and size even under stress or temperature changes.

Improved stiffness: Glass fibre reinforcement enhances rigidity.

Low water absorption: Minimizes moisture-related degradation.

Electrical insulation: Exhibits high dielectric strength and surface resistivity.

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Handling & Packaging: It should be handled with care to avoid moisture absorption, as it can affect its properties. The material is typically packaged in powder form for easy handling and processing. When handling, protective gloves and eye protection are advised to avoid direct contact with the glass fibres, which may cause irritation.

Storage: It is recommended to store the material in a dry, cool place in sealed bags or containers, away from direct sunlight and high humidity.

Shelf -Life: 2 years from date of manufacturing

Packing Size : 25 kg

Please Note: We are manufacturing various technologies related to flame retardants and their tailor-made blends for many specific applications. We can provide technical assistance, as well, in order to make better HFFR for any kind of substrate or material

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