

HOFNIL-MPP

Halogen free Melamine and Phosphorous based flame retardant for Thermoplastics, Engineering Polymers and Thermosets and Filled Polymers.

Introduction: HOFNIL- MPP (Melamine Polyphosphate) is a polymeric salt of melamine and phosphoric moiety suitable for wide range of thermoplastics, engineering polymers and thermosetting plastics both for filled and unfilled.

CAS number: 56386-64-2

Molecular weight: 222.10 g/mol.

Appearance: Fine, off-white powder.

Physical Properties:

MPP content	%	≥98.0
NITROGEN, N	%	40
PHOSPHOROUS, P	%	12
MOISTURE	%	0.3
Volatile	%	≤0.01
pH value	10% w/v water, 25°C	5-7
Specific gravity	g/cm ³	1.7
Bulk density	g/cm ³	0.3-0.4
Water solubility	%	0.01% (20°C)

Particle size: D50% : ≤ 5μm; D98% : ≤ 25μm.

Applications: HOFNIL-MPP is used as an effective flame retardant, primarily for electrical & electronics applications (wire and cables, connectors, switches, housings, etc.), Automotive industry, aerospace industry as a thermally stable halogen free flame retardant. Also applicable to thermosetting, glass fiber filled and other reinforced polyamides etc. The amount proposed to be added 15-20 % to achieve UL 94 Vo class.

Advantages: Excellent thermal stability over conventional flame retardants. Processing temperature up to 320° C and only 1% thermal degradation at 320-350°C. Addition levels of HOFNIL- MPP are relatively low, giving good economics, mechanical properties and lower specific gravity compared to compounds containing halogen/antimony flame retardant systems. Being halogen free also results in significant advantages in terms of fire safety, i.e. lower smoke density, lower smoke toxicity and less corrosion.

Lower corrosivity offers advantages both in the processing stage and in case of a fire. In the processing stage lifetime of barrels and moulds will be extended, resulting in decreased equipment costs. HOFNIL-MPP: An ideal flame retardant as it is Nontoxic during its life cycle, including during fire situations. Ease of handling -non-hazardous, fully colourable, Recyclable/Biodegradable.

Packing: 25 kg Paper bag with PE liner and PP woven fabric reinforced.

Handling & Safety: -HOFNIL-MPP requires no special safety measures, provided the usual precautions for handling chemicals are observed. Avoid dust formation and ignition sources. For more detailed information please refer to the material safety data sheet.

Please note: We can provide technical data or assistance in order to make better FR for any kind of material.

For More information Please Contact:

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