



# JJAZZ<sup>®</sup> 4MA

## FLAME RETARDANT PERFORMANCE SYSTEM

# DATA SHEET

## JJAZZ<sup>®</sup> 4MA-Non-Halogen Flame Retardant Performance System

### Product Description

JJAZZ<sup>®</sup> 4MA Flame Retardant Performance System is a highly effective FR package utilizing unique amino phosphate flame retardant chemistry that is based on proprietary technology and a synergistic additive, that when combined, allow materials to consistently meet extremely difficult flame test standards such as **ASTM E84**. This FR Performance System is designed for use in environmentally friendly plastics applications. JJAZZ<sup>®</sup> 4MA FR Performance System is non-toxic and non-corrosive, offers excellent hydrolytic stability, has superior char forming, maximized heat deflection, low smoke characteristics and is easily works with UV stabilizers. JJAZZ<sup>®</sup> 4MA FR Performance System does not contain any heavy metal or gaseous halogen by products. The most recognizable feature of the JJAZZ<sup>®</sup> 4MA FR Performance System is its self-contained catalyst system, thus allowing for an overall lower FR use level and an improved physical property profile to the composition.

### Applications

- Polyolefin plastics where efficiency at lower typical loading levels is a key consideration.
- Solvent based coatings, adhesives and paints
- Epoxy Compounds & Composite Materials
- Elastomeric Rubber applications
- In many applications loading levels of 28-30% will achieve **UL 94 V0** ratings (1/16" burn bar) and 32-42% to achieve ASTM E84 depending on final formula and base resin or chemistry used.

Typical Properties	Typical Values
Appearance	Finely divided, free-flowing off-white powder
Specific gravity	1.30
pH	7.2
Bulk Density (g/l)	400
Decomposition (5%, nitrogen)	>240°C

Available in various particle sizes to fit many applications (4MA1, 4MA2, 4MA3)

### Health & Safety Information

Product health and safety information may be obtained from the Material Safety Data Sheet (MSDS).

For a copy, please call 440-354-2551 or email at: [kara.orpritz@jji-technologies.com](mailto:kara.orpritz@jji-technologies.com). Before using any product, a customer is advised to review the MSDS of a respective product.

For more information or samples call:

1-877-JJI-FAQS (877-554-3277)

Or visit us online: [www.jji-technologies.com](http://www.jji-technologies.com)