



Kisuma 5

Kisuma 5 is a magnesium hydroxide compound with superfine particles and no aggregation. It was developed as a flame retardant by Kisuma Chemical and Kyowa Chemical Industry Co., Ltd. Magnesium hydroxide is an ideal flame retardant as it begins to dehydrate at about 340° C - a temperature which easily overlaps with the decomposition and composition temperatures of plastics. In addition, unlike conventional magnesium hydroxides, Kisuma 5 has excellent compatibility with plastics. This means that high quality composites can be produced. Therefore, it can be a substitute for aluminum hydroxide as a flame retardant in a thermoplastic process such as PP whose molding temperature is at least 200° C.

Kisuma5 Application	Kisuma 5 Advantages
<ul style="list-style-type: none">• PP Compound• PE compound• Nylon compound• EVA compound• ABS compound• Copolymer compound	<ul style="list-style-type: none">• Excellent as a flame retardant• Can be used with all thermoplastic resins• Eliminates toxic gas emissions and reduces smoke emissions• Improves arc and tracking resistance• Reinforces falling ball impact strength• Improves the melt flow index, Flexural modulus• Izod impact strength and other properties of resins• Effective as a heat stabilizer for resin containing halogen

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