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KISUMA CHEMICALS DATASHEET

KISUMA 5B

Magnesium Hydroxide as Flame Retardant

Features:

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 strength. Improves the melt flow index, flexural modulus, Izod impact strength and other properties of the resins. Also effective as heat stabilizer for resins containing halogen.

Specified and Typical Properties:

	Typical value	General specification	
Appearance	Free flowing White powder	-	
Mg(OH) ₂	98	min 97	w/w%
Loss on Drying (120°C/1hr)	0.1	max 0.3	w/w%
Specific Surface Area	6	min 3 max 10	m ² /g
Secondary particle size Average	0.8	min 0.7 max 1.1	µm
> 5 µm		0	µm vol %
Crystallite size	0.6 ~ 1	-	µm
Cl	0.03	-	w/w %
Specific Gravity	2.39	-	
Mohs hardness	2.5	-	
Refractive index	1.57	-	
Temp. of commencing dehydration	340	-	°C
Amount of heat adsorbed	312	-	cal/g

Typical properties are given for information only and can not be used for specification