

Melamine Cyanurate

1. Brief introduction

MCA contains triazine benzenoid structure, which is absolutely stable. Besides, because of the conjugative effect of big electron cloud, of the MCA benzenoid structure is even more stable. With high nitrogen content, low toxicity of the decomposed product, MCA is a new type of fire-retardant appended to polyamide which caters to current trend.

MCA can reduce surface temperature of the polymer material and isolate the air to block the combustion by “sublimation and decalescence”.

The fire-retardant effect of MCA for polyamide is that the interacted expansile carbon layer on the surface in the course of heating ammonia and degradation. The mechanism can be summarized as catalyzing carbon layer to expansion and gas dilution mutually in condensation phase.

2. Product index

Item	index
Appearance	white crystal powder
Purity %	≥99.5
Free water %	≤0.2
PH value (10g/L)	5.0~7.0
Brightness %	≥95
Average particle size D50 μm	1.5~2
Heat resistance °C	350
solubility	not in acid, alkali and organic solvent insoluble poorly in water, lipophilicity.

Remark: Accord with EU RoHS.

3. Characteristic and directions for use

1) The product has good flame-resistant effect, low-dosage, non-toxic and few smoke quantities. It has good solubility with nylon resin, affects slightly to the machine capability. It seldom show sticking the molds, foaming and frosting phenomenon in the process, It should be added about 20% according to the request for nylon product.

2) Mix with nylon according to certain proportion, drying for 8 hours in vacuum under 110°C to reduce water content less than 0.1%; prevent from reabsorbing moisture.

3) Injection temperature is 240-260 °C, mold temperature is 60-70 °C, and injection pressure is 600-800Mpa.

4) Applied in PE, EVA cable, heat-shrinkable pipe, TPV cable and silicon-rubber.

4. Packing, Storage and Transportation

1) 25kg in a polypropylene woven bag with plastic film inner lining.

2) Non-dangerous goods are stored storing in ventilated and dry warehouse. Avoid moisture during transportation, The storage period is 12 months.

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