

# Polyizer 121

## Description

DOOBON's synthetic hydrotalcite, Polyizer-121, is commonly used for stabilizing PVC. It shows well-performance in Ca-Zn stabilizer which is an environmentally friendly, non-toxic and heavy metal free. Polyizer-121 has been developed in accordance with market requirements and satisfaction of our customer needs.

**Structure**  $Mg_3ZnAl_2(OH)_{12}CO_3 \cdot 3H_2O$

**Appearance** Fine, white powder

## Specifications

<b>Moisture</b>	%	Max 0.5
<b>Molar Ratio MgO/Al<sub>2</sub>O<sub>3</sub></b>	-	2.9 ~ 3.5
<b>Molar Ratio ZnO/Al<sub>2</sub>O<sub>3</sub></b>	-	0.9 ~ 1.1
<b>pH(2% Ethanol)</b>	-	8.0 ~ 9.5
<b>Bulk Density</b>	g/ml	0.3 ~ 0.5
<b>Metal Contents</b>	ppm	Max 10
<b>Particle Size &lt; 1 μm</b>	% (Vol)	Min 70.0
<b>&gt; 5 μm</b>	% (Vol)	Max 0.5

## Application

- Whole area of PVC application related with Ca-Zn Heat Stabilizer.

## Handling

**Packaging Storage** Paper Bags, PE inner liner, 20 kg net  
Cool, Dry and well ventilated area at room temperature

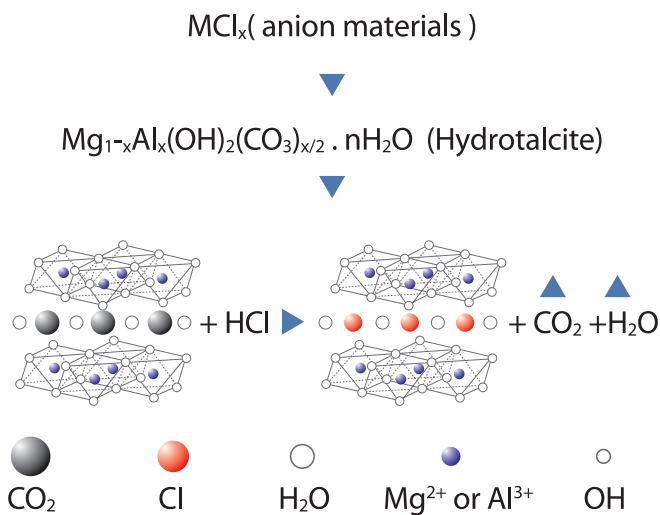
\* For additional handling and toxicological information, consult the DOOBON Material Safety Data Sheet.

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## Hydrotalcite is...?

### ↔ Inactivation of Hydrotalcite to anion materials



### Residual Catalyst make

1. reducing heat stability
2. a mold corrosion of mold surface
3. high processing pressure and fish-eye

### ↔ Application Fields of Hydrotalcite

- |                        |  |
|------------------------|--|
| <b>Film insulator</b>  | Maintain the thermal insulation ability by adding 1-20 part in ratio of resin agriculture film for PE, PP, EVA etc.    |
| <b>Fume capture</b>    | For assisting flame retardant. When it is added to polymer, prevents and absorb fume of halogen from flame retardants. |
| <b>Heat stabilizer</b> | Heat stabilizer for PVC, PVDC, Heat and ultraviolet resistant.   |
| <b>Acid acceptor</b>   | Halogen containing rubber, pharmacy, medical treatment and textile.  |

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