

# Arkema PVC Stabilizer Datasheet

Manufacturer: Arkema B.V., Vlissingen, Netherlands

Product Type: PVC Heat Stabilizer (General Ca-Zn / Mixed Metal Type)

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## 1. Product Description

A high-performance heat stabilizer designed for rigid PVC (UPVC) applications. Provides excellent thermal protection during extrusion and molding, prevents yellowing, improves processing stability, and ensures long-term weathering resistance.

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## 2. Applications

- UPVC window and door profiles
  - Rigid PVC pipes and fittings
  - Cable ducts and PVC channels
  - Injection-molded PVC components
  - PVC panels and sheets
  - General rigid PVC extrusion
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## 3. Typical Properties

Property	Value / Range
Physical Form	White free-flowing powder
Bulk Density	0.80 – 1.20 g/cm <sup>3</sup>
Moisture Content	< 0.5%
Thermal Stability	> 280°C
Recommended Processing Temperature	165 – 200°C

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## 4. Key Benefits

- Prevents PVC decomposition during processing
  - Excellent early-color stability (anti-yellowing)
  - Improved long-term heat resistance
  - Reduced die build-up
  - Enhanced melt flow and extrusion stability
  - Odor reduction
  - Compatible with CaCO<sub>3</sub>-filled formulations
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## 5. Recommended Dosage

- UPVC profiles: 3 – 6 phr (per 100 parts PVC resin)
- Pipes and fittings: 2 – 4 phr
- Sheets and extrusion parts: 2 – 5 phr

Actual dosage may vary depending on formulation, fillers, and processing conditions.

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## 6. Processing Guidelines

- Barrel temperature: 165 – 185°C
  - Die temperature: 180 – 200°C
  - Feeding zone: 40 – 60°C
  - Screw speed: 12 – 25 rpm
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## 7. Packaging

- 25 kg bags
  - Multi-layer PE-lined industrial packaging
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## 8. Storage Conditions

- Store in a cool, dry, and well-ventilated place
  - Protect from direct sunlight
  - Keep away from moisture
  - Avoid dust formation
  - Keep away from open flames or sparks
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## 9. Safety Information

- Avoid inhalation of dust
  - Use protective gloves, mask, and eyewear
  - Avoid prolonged skin contact
  - Non-flammable but should be kept away from heat sources
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## 10. Notes

This datasheet is a generic technical guide based on typical Arkema PVC stabilizer specifications. Exact parameters may vary depending on the specific grade supplied.

For more details, please contact Arkema technical support or your raw material supplier.