

Product information

CUREZOL 2PHZ-PW

Curing Agent

DESCRIPTION

Curezol 2PHZ-PW is a substituted imidazole that can be used as an epoxy curing agent or as an accelerator for dicyandiamide or anhydride curing agents in a wide variety of applications including electric and electronic parts, paints, adhesives, and construction composite materials.

TYPICAL PROPERTIES

Property	Value	Unit
Appearance	Fine powder	
Color	Light pink	
Molecular Weight	204	
Melting Point	230	°C
Solubility in Liquid Epoxy Resin	Poor at r.t.	
Recommended Use Level ¹	5-10	phr

ADVANTAGES

- Starts to react at high temperatures in 1K Systems
- Long pot life
- Effective for phenolic accelerators

APPLICATIONS

- Casting, potting and encapsulation of electronic devices
- One-pack structural adhesives for industrial, automotive and aerospace uses
- Composites

SHELF LIFE

30 months from the date of manufacture in the original sealed container at ambient temperature. Store away from excessive heat and humidity in tightly closed containers.

STORAGE AND HANDLING

Refer to the Safety Data Sheet for Curezol 2PHZ-PW curing Agent.

TYPICAL USE LEVEL

5 to 10 phr

REACTIVITY AND THERMAL PROPERTIES

Property	Value	Unit
Moderate Reactivity Temperature Range ¹	145-155	°C
Higher Reactivity Temperature Range ¹	155-175	°C
Latency @ 25°C ¹	100-150	days
150Gel Time @ 150°C ^{1,2}	400-550	sec
Typical Cure Schedule ¹	2hr @ 100°C + 4hr @ 150°C	
Glass Transition Temperature ¹	190-220	°C

Footnotes:

(1) With bisphenol-A based liquid epoxy resin (EEW=190)

(2) Time required for 200g mass to gel

* Evonik distributes Curezol products in the United States.

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