

Product information

DICYANEX[®] 1400B

Curing Agent

DESCRIPTION

Dicyanex 1400B curing agent is a micronized grade of dicyandiamide containing 2.4% of an inert flow control additive to inhibit clumping and improve handling. It is designed for use as a latent curing agent for epoxy resins.

TYPICAL PROPERTIES

Property	Value	Unit
Appearance	White, Crystalline Particles	
Melting Point	405-412	°F
Particle Size:		
90 %	< 10	microns
50 %	< 5	microns
Nitrogen as % of Dicyandiamide	99	
Equivalent Wt/(H)	21	
Recommended Use Level (EEW=190)	4-15	phr

ADVANTAGES

- Finest particle size available in Dicyanex product series for maximum reactivity
- Easily dispersed in liquid resins
- Shelf stability of up to 6 months @ 77°F (25°C) in properly formulated Systems
- Activation temperature can be varied easily from 356°F -203°F (180°C-95°C) with appropriate accelerator selection

APPLICATIONS

- One-component adhesives
- Recreational and industrial pre-preg Composites
- Powder coatings

STORAGE AND HANDLING

Refer to the Safety Data Sheet for Dicyanex 1400B curing agent.

Dicyanex 1400B has a natural tendency to compact over time, which can lead to clump formation. Apply slight pressure to break apart and disperse the clumps.

SHELF LIFE

At least 24 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.

TYPICAL CURE SCHEDULE

- 1-2 h @ 356°F (180°C)
- 45 min @ 250°F (120°C) with 0.5 parts Imicure™ AMI-2 curing agent

TYPICAL HANDLING PROPERTIES

Gel Time (month) [150 g mass @ 77°F (25°C)] 12

SUGGESTED ACCELERATORS

**Ancamine® 2014AS/2014FG
Amicure™ UR/UR2T
Imidazoles**

TYPICAL PERFORMANCE

Property	Value	Unit
Tg*	250	°F
when accelerated with Ancamine 2014AS	239	°F

* Measured using DSC with 50°F (10°C)/min ramp. Value will be higher when accelerated with an imidazole.

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