Product information

AMICURE® CG-1400F

Curing Agent

DESCRIPTION

Amicure CG-1400F curing agent is a micronized grade of dicyandiamide containing 3,5% 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	Method
Appearance	White, crystalline particles		
Melting Point	207-212	°C	
Particle Size	D90 <10	microns	
	D50 <5	microns	
Nitrogen as % Dicyandiamide	99	%	
Equivalent Wt/{H}	21		
Recommended use Level	4-15	PHR	With Bisphenol A diglycidyl ether (EEW=190)

ADVANTAGES

- Finest particle size available in Amicure DICY product series for maximum reactivity
- Easily dispersed in liquid resins
- Shelf stability of up to 6 months at 25°C in properly formulated systems
- Activation temperature can be varied easily from 180°C to 95°C with appropriate accelerator selection

APPLICATIONS

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

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.

EVONIK
Leading Beyond Chemistry

STORAGE AND HANDLING

Refer to the Safety Data Sheet for Amicure CG-1400F curing agent.

TYPICAL HANDLING PROPERTIES

Property	Value	Unit	
Gel Time (150g mass at 25°C)	12	month	

SUGGESTED ACCELERATORS

Ancamine 2014AS / 2014FG
Amicure UR2T
Imidazoles (e.g. Imicure EMI-24)
Ancamine 2441 / 2442
Ancamine 2337S (in combination with Ancamine 2014AS / 2014FG / 2441 / 2442)

TYPICAL PERFORMANCE PROPERTIES

Property	Value	
Tg (^{o}C)*	121	
When accelerated with Ancamine 2441	135	

* Measured using DSC with 10K/min ramp. Value will be higher when accelerated with an Imidazole

TYPICAL CURE SCHEDULE

- 1–2 hours at 180°C
- 30 minutes at 140°C with 2-5 parts Ancamine 2441 curing agent

EVONIK
Leading Beyond Chemistry

Amicure® is a registered trademark of Evonik Industries AG or one of its subsidiaries.

Disclaimer
This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

EVONIK OPERATIONS GMBH
Business Line Crosslinkers
Paul-Baumann-Str. 1
45764 Marl
Germany

www.evonik.com/crosslinkers
Product Information: APCSE@evonik.com
Sample Request: APCSE@evonik.com

EVONIK CORPORATION
Business Line Crosslinkers
7001 Hamilton Boulevard
Trexlertown, PA 18087
USA

CrosslinkersProdinfo@evonik.com
Crosslinkers-Samples@evonik.com

EVONIK SPECIALTY CHEMICALS (SHANGHAI) CO., LTD.
Business Line Crosslinkers
55, Chundong Road
Xinzhuang Industry Park
Shanghai, 201108
China
CL-Asiainfo@evonik.com
CL-Asiainfo@evonik.com

EVONIK
Leading Beyond Chemistry