

ANCAMINE[®] 2167

Curing Agent

DESCRIPTION

Ancamine 2167 curative is a low-viscosity curing agent for epoxy resins. This curing agent has both cycloaliphatic and aromatic character. Ancamine 2167 curing agent is an ideal alternative to aromatic diamines for the elevated temperature cure of epoxy resins.

TYPICAL PROPERTIES

Property	Value	Unit
Colour	3	Gardner
Viscosity @ 77°F	210	cP
Specific Gravity @ 77°F	0.975	
Amine Value	520	mg KOH/g
Flash Point (closed cup)	>229	°F
Equivalent Wt{H}	53	
Recommended use Level (EEW=190)	28	PHR

ADVANTAGES

- Higher tensile strength
- Improved toughness
- Improved elongation

APPLICATIONS

- Filament winding
- Resin transfer molding
- Tooling
- Casting

SHELF LIFE

At least 24 months from the date of manufacture in the original sealed containers at ambient temperature. Store away from excessive heat and humidity in tightly closed containers.

Material may crystallize or solidify upon exposure to low temperatures. Crystallized or solidified material can be utilized after melting at elevated temperatures without impacting handling or physical properties. It is recommended that the material be heated carefully to 50-70°C while mixing continuously for 30-60 minutes. Once the solidified material has been fully homogenized, it can be cooled to room temperature and utilized under normal conditions.

STORAGE AND HANDLING

Refer to the Safety Data Sheet for Ancamine 2167 curing agent.

TYPICAL CURE SCHEDULE

2 hours at 176°F plus 3 hours at 300°F.

TYPICAL HANDLING PROPERTIES*

Property	Value	Unit
Mixed Viscosity @ 77°F	2,340	cP
Gel Time (150 g mix @ 77°F)	210	min

TYPICAL PERFORMANCE PROPERTIES*

Property	Value	Unit
Glass Transition Temperature	327	°F, DSC
Tensile Strength	24.2	thousand psi
Tensile Modulus	818.4	thousand psi
Elongation	6.9	%
Fracture Toughness, KIC	690	psivin

* Ancamine 2167 curing agent formulated with standard Bisphenol A-based (DGEBA, EEW=182) epoxy resin.

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