

Epoxy Curing Agents and Modifiers

Ancamine® DL50 Curing Agent

Description

Ancamine DL50 curing agent is a liquid mixture of aromatic amines based on methylenedianiline (MDA). In addition to MDA, Ancamine DL50 curative contains polymethylene polyanilines and aromatic amines with a functionality greater than 4. The multifunctional nature of polymethylene polyanilines can increase the crosslink density of a completely cured epoxy compared with methylenedianiline. Ancamine DL50 curative is best suited for use as an epoxy curative in forced cure applications. This aromatic, multifunctional curative can be used to produce high-strength, chemically-resistant, elevated temperature-tolerant epoxy parts. Epoxy systems cured with Ancamine DL50 curative offer excellent resistance to water, acid, alkalies and hydrocarbon solvents.

Applications

- Laminating and filament winding
- Composite and pre-preg fabrication
- Casting and tooling

Storage Life

At least 60 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.

Handling Precautions

Refer to the Material Safety Data Sheet for Ancamine DL50 curing agent.

Typical Cure Schedule

2 hours at 176 °F plus 3 hours at 302 °F.

Typical Properties

Appearance	Yellow-to-Light-Brown
Viscosity @ 104 °F (poise)	300
Specific Gravity @ 77 °F	1.10
Equivalent Wt/{H}	51
Recommended Use Level (phr, EEW = 190)	27

Typical Performance*

Glass Transition Temperature by DSC (°F)	331
Tensile Strength (psi)	10,500
Tensile Modulus (thousand psi)	408
Elongation (%)	4

* Ancamine DL50 curing agent formulated with standard Bisphenol-A based (DGEBA, EEW=190) epoxy resin.

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