

Product information

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.

TYPICAL PROPERTIES

Property	Value	Unit
Appearance	Yellow-to-Light-Brown	
Viscosity @ 40°C	30	Pa.s
Specific Gravity @ 25°C	1.10	
Equivalent	51	Wt/{H}
Recommended use Level (EEW = 190)	27	phr

APPLICATIONS

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

SHELF 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.

STORAGE AND HANDLING

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



TYPICAL PERFORMANCE*

Property	Value	Unit
Glass Transition Temperature by DSC	166	°C
Tensile Strength	72	MPa
Tensile Modulus	2.8	GPa
Elongation	4.0	%

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

TYPICAL CURE SCHEDULE

2 h at 80°C plus 3 h at 150°C

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