

# Ancamine<sup>®</sup> 2900 Curing Agent

## DESCRIPTION

Ancamine 2900 curing agent is an aromatic amine designed for curing liquid epoxy resins at elevated temperatures. Ancamine 2900 curing agent exhibits moderate pot life with excellent chemical resistance, high mechanical strength, and high temperature tolerance.

## ADVANTAGES

- Excellent physical properties
- High heat deflection temperature
- Good pot life
- Good chemical resistance

## RECOMMENDED PROCESSING

- Filament Winding
- Resin Transfer Molding
- Fiber Impregnation in a Controlled Environment

## APPLICATIONS

- Laminates and Composites
- Filament Wound Pipe / Liners / Fittings

## SHELF LIFE

At least 36 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 2900 curing agent.

## TYPICAL CURE SCHEDULE

- 2 hours at 176°F, then 3 hours at 302°F
- 2 hours at 80°C, then 3 hours at 150°C

## TYPICAL PROPERTIES

Appearance	Dark Brown
Color (Gardner)	>16
Viscosity @ 77°F / 25°C	80–100 cPs
Specific Gravity @ 77°F / 25°C	0.99
Equivalent Wt/{H}	38
Recommended Use Level (phr, EEW=190)	21

## TYPICAL HANDLING PROPERTIES<sup>1</sup>

Mixed Viscosity @ 104°F / 40°C	600–700 cPs
Gel Time (150g mix @ 77°F / 25°C)	170–200 min
Time to 10,000 cPs @ 104°F / 40°C	110 min

## THERMAL PERFORMANCE<sup>1</sup>

Glass Transition Temperature (DSC second scan)	155°C	310°F
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## MECHANICAL PERFORMANCE - CAST PANEL<sup>1</sup>

Flexural Strength	147.5 MPa	21.4 ksi
Flexural Modulus	2.7 GPa	0.39 Msi
Tensile Strength	73.1 MPa	10.6 ksi
Tensile Modulus	2.1 GPa	0.30 Msi
Tensile Elongation @ Break	5.4%	
Compressive Strength	112.4 MPa	16.3 ksi
Compressive Modulus	2.0 GPa	0.29 Msi

## MECHANICAL PERFORMANCE - COMPOSITE PANEL<sup>1</sup>

ILSS 0° Longitude / 90°	71 MPa	10 ksi
Flexural Strength - Composite 0° Longitude	985 MPa	143 ksi
Flexural Modulus - Composite 0° Longitude	46 GPa	6.65 Msi
Compressive Strength (tabs) - 0° Longitude	372 MPa	54 ksi
Compressive Modulus (w/o tabs) - 0° Longitude	13.4 GPa	1.9 Msi

### COMPOSITE PANEL FABRICATION:

Method: Vacuum Assisted Resin Transfer Molding  
 Fiber Type: E-glass (275g / m<sup>2</sup>) Unidirectional  
 Fiber Volume: 60± 3%  
 Cure Schedule: 2 hrs @ 80°C + 3 hrs @ 150°C

(1) Ancamine 2900 curing agent formulated with standard Bisphenol-A based (DGEBA, EEW=180) epoxy resin

Epoxy Curing Agents and Modifiers

# Ancamine<sup>®</sup> 2900 Curing Agent

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