

**DESCRIPTION**

Ancamine 2910 curing agent is a versatile, low viscosity hardener designed to cure liquid epoxy resin at elevated temperature. The unique chemistry offers a longer working time than traditional curing agents. The combination of low viscosity and long pot life can enhance processing of complex woven fabrics by optimum fiber wetting, minimized material waste and improved overall throughput. It is recommended for use in cure-in-place-pipe, composites' processing, electronics and industrial electrical applications.

**PERFORMANCE ADVANTAGES**

- Longer working time
- Low exotherm
- Low viscosity

**APPLICATIONS**

- Cure-in-Place-Pipe
- Composites – Filament winding, VARTM
- Resin Infusion
- Potting and encapsulation

**STORAGE 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.

**HANDLING PRECAUTIONS**

Refer to the Safety Data Sheet.

**TYPICAL CURE SCHEDULE**

- 2 hr @ 150 °F/65 °C
- Post cure @ higher temperatures (200°F/100°C) can be done depending on processing flexibility and final product performance needs.

**TABLE 1: TYPICAL PROPERTIES**

<b>Appearance:</b>	Amber Liquid
<b>Color (Gardner; ASTM D1544)</b>	max. 8
<b>Viscosity<sup>1</sup> @ 77°F / 25°C (mPa.s)</b>	30-60
<b>Specific Gravity @ 77°F / 25°C (lb/gal)</b>	7.76
<b>Equivalent Wt/{H}</b>	38
<b>Recommended Use Level<sup>2</sup> (PHR)</b>	20

**TABLE 2: TYPICAL HANDLING PROPERTIES<sup>2</sup>**

<b>Mixed Viscosity<sup>1</sup> @ 77°F/ 25°C (mPa.s)</b>	3,000
<b>Gel Time 3 150 g mix @ 77°F/ 25°C (min)</b>	600-700
<b>Time to 250K mPa.s<sup>1</sup> @ 77°F/ 25°C (min)</b>	1,150

**TABLE 3: THERMAL PERFORMANCE<sup>2</sup>**

<b>Glass Transition Temperature<sup>4</sup> (°F/°C)</b>	61°C	142°F
<b>Glass Transition Temperature<sup>5</sup> (°F/°C)</b>	89°C	192°F

**TABLE 4: MECHANICAL PERFORMANCE - CAST PANEL<sup>2</sup>**

<b>Tensile Strength (ASTM D638)</b>	71 MPa	10.32 ksi
<b>Tensile Modulus</b>	2.8 GPa	0.43 Msi
<b>Tensile Elongation at Break</b>	5.2%	5.2%
<b>Flexural Strength (ASTM D790)</b>	126.7 MPa	18.4 ksi
<b>Flexural Modulus</b>	3.3 GPa	0.48 ksi
<b>Compressive Strength (ASTM D695)</b>	101 MPa	14.6 ksi
<b>Compressive Modulus</b>	2.33 GPa	0.34 Msi

**TABLE 5: MECHANICAL PERFORMANCE - COMPOSITE PANEL<sup>2</sup>**

<b>ILSS 0° Longitude / 90° Transverse (ASTM D2344)</b>	47/12 MPa	6.8/1.7 ksi
<b>Flexural Strength - 0° Longitude (ASTM D790)</b>	1,114 MPa	161.5 ksi
<b>Flexural Modulus - 0° Longitude</b>	43.4 GPa	6.3 Msi

(1) Brookfield RVT, spindle 27

(2) Bisphenol-A based epoxy resin (EEW=190)  
Cure schedule cast and composite panel: 2 h @ 150°F/65°C  
Composite panel by vacuum-assisted resin transfer molding  
Fiber type: E-glass (275 g/m<sup>2</sup>) Unidirectional  
Fiber volume: 60 ± 3 %

(3) Techne Gelation Timer, 150 g mix

(4) DSC @ 10°C/min second heating scan

(5) DMA @ 3°C/min – Three point bending (Tan Delta)

Epoxy Curing Agents and Modifiers

# Ancamine® 2910 Curing Agent

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