

Product information

ANCAMINE[®] 2907

Curing Agent

DESCRIPTION

Ancamine 2907 curing agent is a non-staining aromatic amine designed for curing liquid epoxy resins at elevated temperatures. Ancamine 2907 curing agent exhibits very long pot life with excellent high temperature tolerance.

TYPICAL PROPERTIES*

Property	Value	Unit	Method
Appearance	Amber Liquid		
Color	>12	Gardner	
Viscosity @ 60°C	625	cPs	Brookfield RV Spindle #27
Specific Gravity @ 25°C	1.12		
Equivalent Wt/{H}	42		
Use Level	24	PHR	

TYPICAL HANDLING PROPERTIES*

Property	Value	Unit	Method
Mixed Viscosity @ 60°C	300–400	cPs	Brookfield RV Spindle #27
Gel Time 150g mix @ 60°C	520	min	
Time to 10,000 cPs @ 60°C	280	min	Brookfield RV Spindle #27

* Ancamine 2907 curing agent formulated with standard Bisphenol-A based (DGEBA, EEW=180) epoxy resin

ADVANTAGES

- Excellent physical properties
- Low exotherm temperature
- Excellent pot life
- Excellent hydrolysis resistance

APPLICATIONS

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

RECOMMENDED PROCESSING

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

STORAGE 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 2907 curing agent.

TYPICAL CURE SCHEDULE

2 hours at 80°C, then 3 hours at 150°C

THERMAL PERFORMANCE*

Glass Transition Temperature (DSC second scan): 160°C

To achieve higher thermal (>160°C) properties mixture of liquid epoxy and multifunctional resin can be used

MECHANICAL PERFORMANCE - CAST PANEL*

Property	Value 1	Value 2	Method
Flexural Strength	76 MPa	11.18 ksi	ASTM D790
Flexural Modulus	2.6 GPa	0.38 Msi	
Tensile Strength	43 MPa	6.2 ksi	ASTM D638
Tensile Modulus	2.2 GPa	0.32 Msi	
Tensile Elongation @ Break	2.4%		
Compressive Strength	137 MPa	19.9 ksi	ASTM D695
Compressive Modulus	1.7 GPa	0.24 Msi	

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MECHANICAL PERFORMANCE - COMPOSITE PANEL *

Property	Value 1	Value 2	Method
ILSS 0° Longitude / 90° Transverse	63.8 MPa	9.26 ksi	ASTM D2344
Flexural Strength - Composite 0° Longitude	900 MPa	132 ksi	ASTM D790
Flexural Modulus - Composite 0° Longitude	42 GPa	6.12 Msi	
Composite Panel Fabrication	Method: Vacuum Assisted Resin Transfer Molding Fiber Type: E-glass (275g / m ²) Unidirectional Fiber Volume: 60 ± 3% Cure Schedule: 80°C for 2 hrs + 150°C for 3 hrs		

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