

## Technical Data

# LAM-125

# LAM-226

## LAMINATING EPOXY

The New Standard

EPOXIES for  
Laminating  
Infusion  
Tooling  
Assembly

### Wessex Resins & Adhesives

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ISO9001:2015 Certified

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& Adhesives

### COMBINED FEATURES

**Low viscosity** for quick wet out of synthetic composite fabrics; especially effective with Kevlar® and carbon fibre.

**Medium cure speed** hardener provides 2 to 3 hours of working time at 25°C. A typical laminate will be gelled in 4 to 5 hours.

**Optimized** for hand wet out and machine impregnation in contact moulding, vacuum bagging and Light RTM applications.

**Room temperature cure** properties suitable for many composite components and structures.

**Tg as high as 96°C** with proper post cure providing excellent temperature stability and great part cosmetics.

**Cost effective, high performance** epoxy formulation for synthetic composite manufacturing.

### HANDLING PROPERTIES

Property	Standard	Units	21°C	25°C	29°C
150g Pot Life	ASTM D2471	minutes	88	59	47
500g Pot Life	ASTM D2471	minutes	70	45	41
Viscosity Mixed	ASTM D2196	mPas	586	475	351
Viscosity (resin)	ASTM D2196	mPas	1420		
Viscosity (hardener)	ASTM D2196	mPas	37		

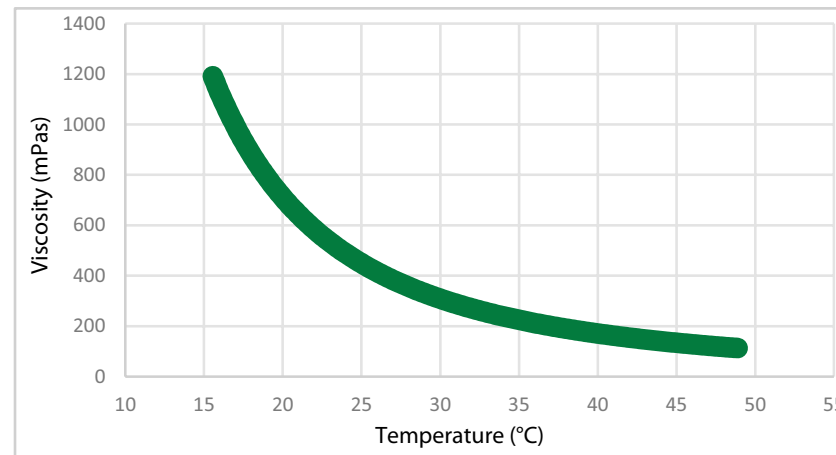
### MIX RATIO

Method	Resin:Hardener	Resin:Hardener
Weight	3.5:1	100:28.6
Volume	3.00:1	100:33.3

### DENSITY

State	Units	21°C
Cured	gcm <sup>-3</sup>	1.16
Resin	gcm <sup>-3</sup>	1.15
Hardener	gcm <sup>-3</sup>	0.98

### VISCOSITY VS TEMPERATURE



Test specimens were neat epoxy (without fibre reinforcement).  
Typical values not to be construed as specification.

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### MECHANICAL PROPERTIES

Property	Standard	Units	22°C x 4 Weeks	25°C x 2 Weeks	RT Gelation + 49°C x 8 hrs	RT Gelation + 60°C x 8 hrs	RT Gelation + 82°C x 8 hrs
Hardness	ASTM D2240	Shore D	85	86	85	86	88
Compression Yield	ASTM D695	MPa	112	111	97	97	97
Tensile Strength	ASTM D638	MPa	63	53	69	69	69
Tensile Modulus	ASTM D638	GPa	3.9	3.85	3.53	3.45	3.18
Tensile Elongation	ASTM D638	%	1.9	1.5	4.2	4.8	5.3
Flexural Strength	ASTM D790	MPa	95	90	117	117	117
Flexural Modulus	ASTM D790	GPa	3.61	3.55	3.52	3.39	2.89

### THERMAL PROPERTIES

Property	Standard	Units	22°C x 4 Weeks	25°C x 2 Weeks	RT Gelation + 49°C x 8 hrs	RT Gelation + 60°C x 8 hrs	RT Gelation + 82°C x 8 hrs	
Tg DMA Peak Tan Delta	ASTM E1640*1	°C	71	69	83	93	106	
Tg DMA Onset Storage Modulus	ASTM E1640*1	°C	64	61	72	81	96	
Tg DSC Onset - 1st Heat	ASTM E1356	°C	61	58	67	78	91	
Heat Deflection Temperature	ASTM D648	°C	56	54	62	74	82	
Tg DSC Ultimate	ASTM E1356	°C	91*2					

\*1 1Hz, 3°C per minute.

\*2 Additional post cure may be required; contact Technical Department for details.

Test specimens were neat epoxy (without fibre reinforcement).

These are typical properties and cannot be construed as a specification. The end users should test the products to ensure the products are suitable for the intended application. Any information, data, advice or recommendation published by Wessex Resins or obtained from Wessex Resins by other means and whether relating to Wessex Resins' materials or other materials, is given in good faith and believed to be reliable.

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