EPOLAM 2031 RESIN

EPOLAM 2031-2032 HARDENERS

EPOXY LAMINATING SYSTEM BY INFUSION

Tg 140 °C – 2 Reactivities

DESCRIPTION

EPOLAM 2031 Resin mixed with EPOLAM 2031 or 2032 Hardener allows the production of composite moulds and structures by infusion method.

PROPERTIES

- *High thermal resistance*
- *Good chemical resistance*
- *Excellent impregnation of fabrics*

PHYSICAL PROPERTIES				
Composition		**EPOLAM 2031 RESIN**	**EPOLAM 2031 HARDENER**	**EPOLAM 2032 HARDENER**
Mix ratio by weight Mix ratio by volume at 25 °C		100 100	26 33	26 33
Aspect		liquid	liquid	liquid
Colour		light amber	colourless	amber
Viscosity at 25 °C (mPa.s) Viscosity of mixing	BROOKFIELD LVT	1,300	16 350	50 550
Specific gravity at 25 °C (g/cm^3) Specific gravity of cured product at 23 °C	ISO 1675 : 1985 ISO 2781 : 1996	1.16 -	0.92 1.12	0.92 1.12
Pot life at 25 °C on 500 g (min)	Gel Timer TECAM		110	200

MECHANICAL PROPERTIES at 23 °C (1)				
			EPOLAM 2031/2031	**EPOLAM 2031/3032**
Hardness	ISO 868 : 2003	Shore D15	88	88
Tensile modulus	ISO 527 : 1993	MPa	3,600	3,700
Tensile strength	ISO 527 : 1993	MPa	80	70
Elongation at break	ISO 527 : 1993	%	6	4
Flexural modulus	ISO 178 : 2010	MPa	2,900	3,000
Flexural strength	ISO 178 : 2010	MPa	130	125
THERMAL AND SPECIFIC PROPERTIES (1)				
Glass transition temperature (Tg) 16 hours at 100 °C 16 hours at 140 °C	ISO 11357-2 : 1999	°C	 120 138	 120 145
Coefficient of thermal expansion (CTE) (+30 °C to +110 °C)	ISO 11359-2 : 1999	10^{-6} K^{-1}	80	80

(1) *Average values obtained on standardized specimens / Hardening 16 h at room temperature + 12 h at 50 °C + 16h at 100 °C*

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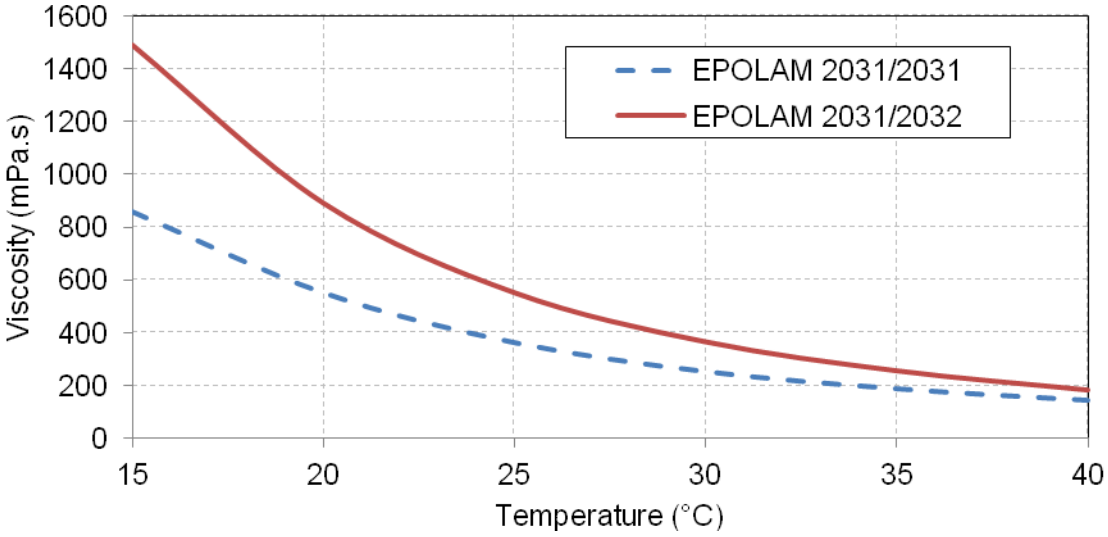
MIXING VISCOSITY VS TEMPERATURE

RHEOMETER CVO 100 Malvern

Cone – Plate 4° / 40 mm

Shear rate : 30 s^{-1}



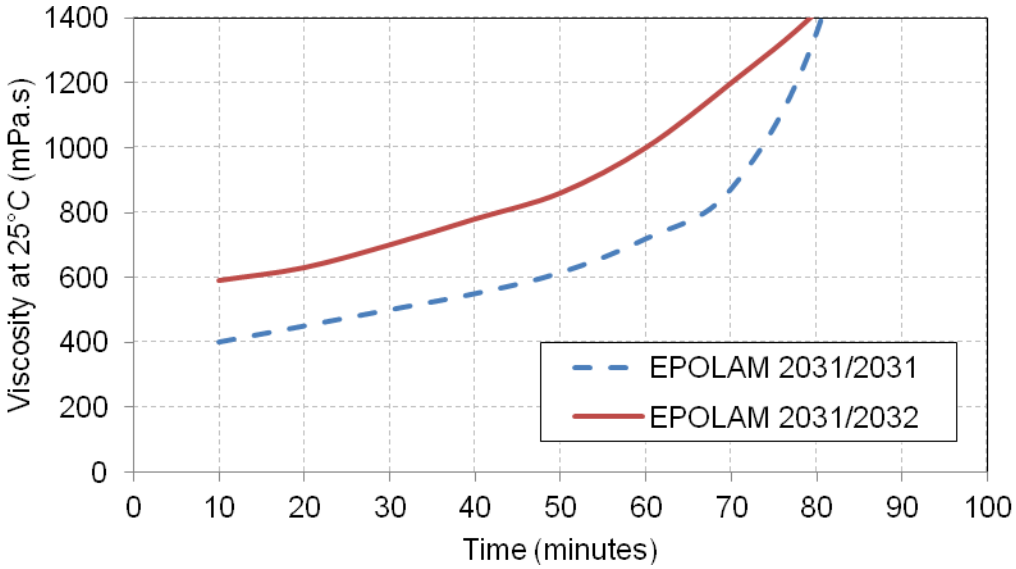
MIXING VISCOSITY VS TIME AT 25°C

Quantity of mixing : 500 g

RHEOMETER CVO 100 Malvern

Plate – Plate 25 mm

Shear rate : 30 s-1



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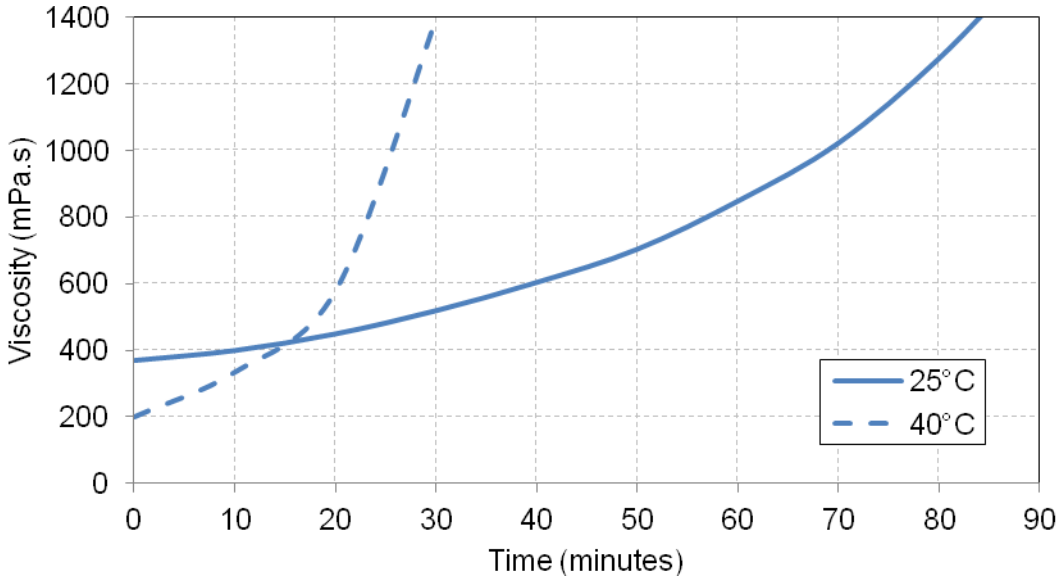
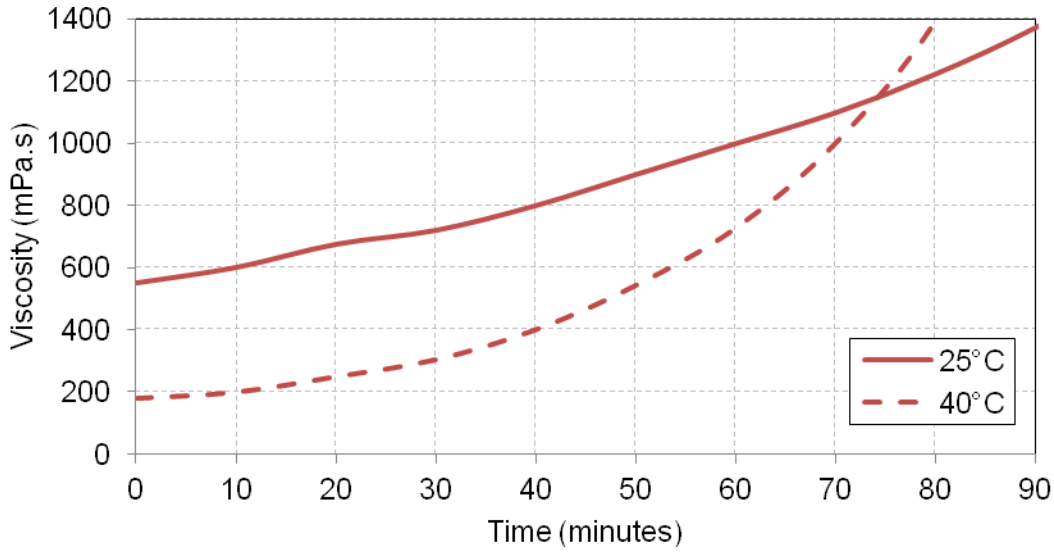
MIXING VISCOSITY VS TIME ON THIN LAYER

thickness : 0.5 mm
RHEOMETER CVO 100 Malvern
Plate – Plate 25 mm
Shear rate : 30 s-1

EPOLAM 2031 / 2031



EPOLAM 2031 / 2032



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PROCESSING CONDITIONS

After mixing according to the indicated ratio impregnate the fiber reinforcement and apply curing cycles.

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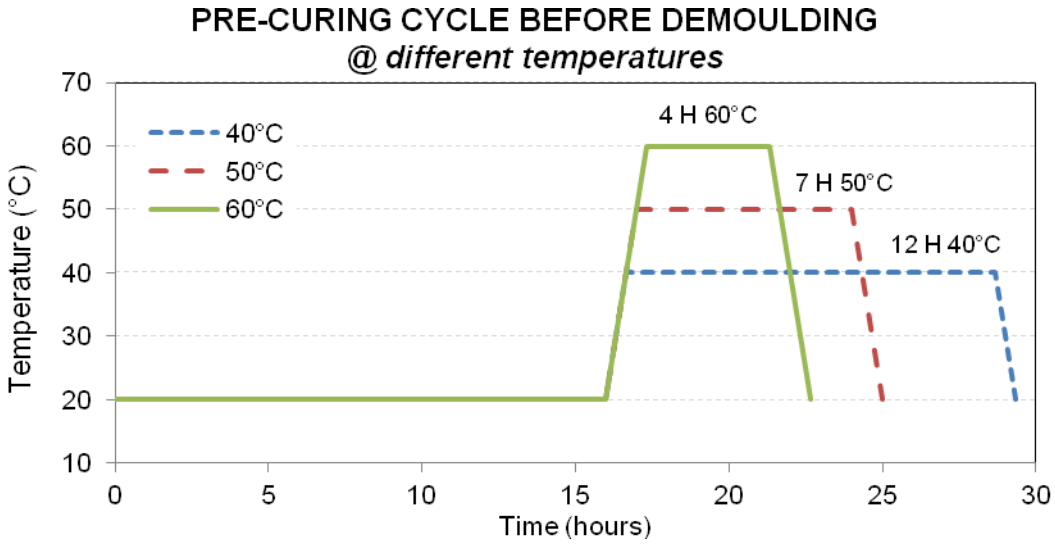
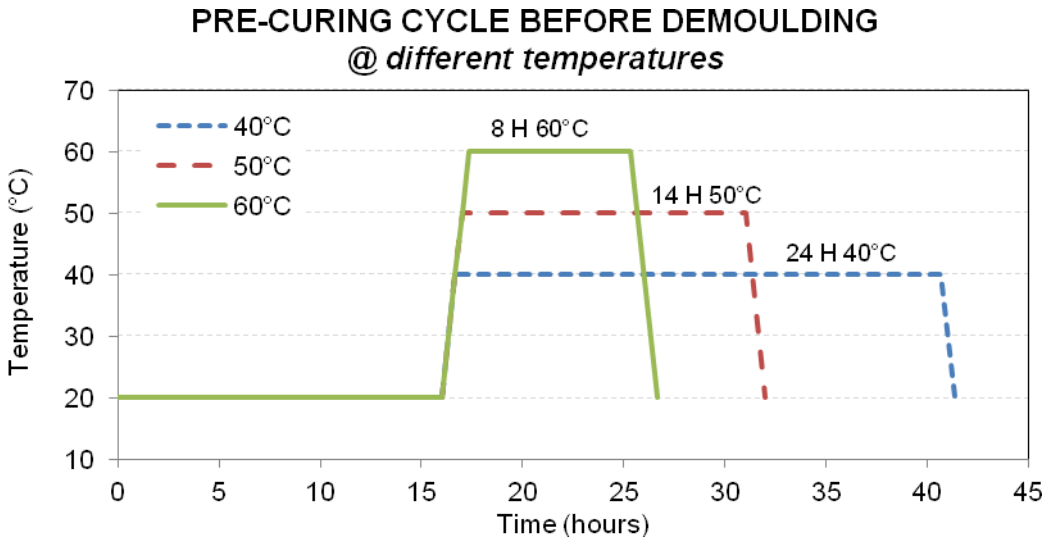


EPOLAM 2031 / 2032



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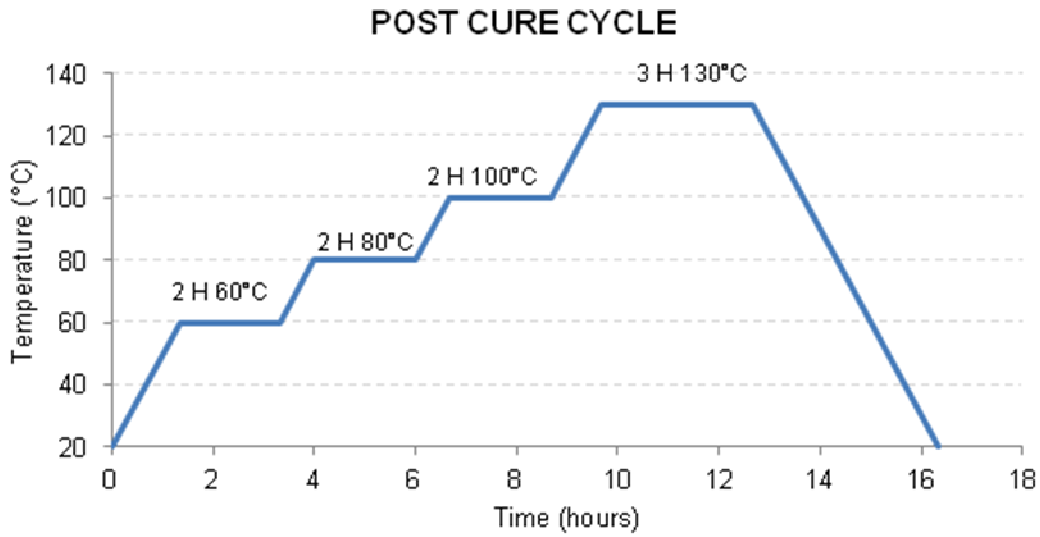
EPOLAM 2031/2031 & EPOLAM 2031/2032



Please respect for each cycle an increase and a decrease in temperature of 30°C per hour between stages.

For any further information concerning the Resin Laminating Method and peripheral products provided by Axson, Please contact our Technical Support Department.

HANDLING PRECAUTIONS

Normal health and safety precautions should be observed when handling these products :

- *Ensure good ventilation*
- *Wear gloves, safety glasses and waterproof clothes*

For further information, please consult the product safety data sheet.

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STORAGE CONDITIONS

In case of resin crystallization during storage, heat between 40 to 50°C to go back to liquid aspect.

Shelf life of both parts is 24 months in a dry place and in their original unopened containers at a temperature between 15 and 25°C

Any open can must be tightly closed under dry nitrogen.

PACKAGING

EPOLAM 2031 RESIN	*EPOLAM 2031 HARDENER*	*EPOLAM 2032 HARDENER*
	5.75 kg	
22.0 kg	*18.2 kg*	*18.2 kg*
210 kg	*180 kg*	*180 kg*
1,100 kg	*900 kg*	*900 kg*

GUARANTEE

The information contained in this technical data sheet result from research and tests conducted in our Laboratories under precise conditions. It is the responsibility of the user to determine the suitability of AXSON products, under their own conditions before commencing with the proposed application. AXSON guarantee the conformity of their products with their specifications but cannot guarantee the compatibility of a product with any particular application. AXSON disclaim all responsibility for damage from any incident which results from the use of these products. The responsibility of AXSON is strictly limited to reimbursement or replacement of products which do not comply with the published specifications. .

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