



# EPOLAM 2022

**HIGH PERFORMANCE  
LAMINATING EPOXY RESIN  
T<sub>g</sub> 100°C**

## PHYSICAL PROPERTIES

	RESIN	HARDENER	MIXING
Mixing ratio by weight	<b>100</b>	<b>40</b>	
Mixing ratio by volume	<b>100</b>	<b>50</b>	
Physical appearance : liquid	Colourless	Colourless	Colourless
Brookfield viscosity at 25°C	1600 ± 200 mPa.s	40 ± 5 mPa.s	600 ± 100 mPa.s
Specific gravity at 25°C	1.17 ± 0.02	0.94 ± 0.02	1.10 ± 0.02
Pot-life (280 gr) at 25°C			1 hr 15 min. ± 5 min.

## MECHANICAL AND THERMAL PROPERTIES

Final hardness *	(ISO 868)	D Shore	85 ± 2
T <sub>g</sub> (DSC) *		°C	100
Flexural strength *	(ISO 178)	MPa	125 ± 10
Flexural modulus of elasticity *	(ISO 178)	MPa	3400 ± 200
Tensile strength *	(ISO 527)	MPa	58 ± 5
Demould time at room temperature		hr	24-36
Complete cure at room temperature		day	7

NB : The above values were obtained with an unmodified resin (no reinforcement).

The above properties, obtained using standardized specimens and in precise chemical crosslinking conditions, represent the optimum values for this system after thermal treatment and complete hardening.

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Tg 100°C**

## APPLICATIONS

*This system is designed for the production of composite structures by impregnation hard layers, vacuum injection and low pressure injection methods as well as by filament winding.*

## PROPERTIES

*Very low viscosity  
Excellent fabric wetting  
Good temperature resistance  
Good mechanical properties*

## PROCESSING

*After having prepared the mix according to the indicated ratio, carry out impregnation of the reinforcement materials (glass, aramid, carbon) using the different methods mentioned above. To obtain maximum heat resistance and mechanical properties, postcuring is necessary : after 24 hours at 20°C, stove for 4 hours at 50°C, 2 hr at 80°C then 2 hours at 100°C, with a temperature gradient of 20°C per hour between the above plateau values.*

## PRECAUTIONS

*Normal health and safety precautions should be observed when handling these products :*  
*. ensure good ventilation*  
*. wear gloves and safety glasses*  
*For further information, please consult the product safety data sheet.*

## STORAGE

*Shelf life is 1 year in a dry place and in original unopened containers at a temperature between 15 and 25°C.*

## PACKAGING

### RESIN

*1 x 5.000 kg  
1 x 20.000 kg*

### HARDENER

*1 x 2.000 kg  
1 x 8.000 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.