

## APPLICATIONS

- Production of composite structures by liquid resin infusion methods.
- Vacuum and low pressure injection
- Filament winding.

## PROPERTIES

- Very low viscosity
- Outstanding wetting ability of the reinforcements
- Good behaviour in moist environment
- Good mechanical properties
- Good wetting ability of balsa wood and foams

### PHYSICAL PROPERTIES

		RESIN EPOLAM 5015	HARDENER EPOLAM 5014	HARDENER EPOLAM 5015	HARDENER EPOLAM 5016
Mixing ratio by weight		100	34	30	36
Mixing ratio by volume		100	42	37	44
Aspect		liquid	liquid	liquid	liquid
Colour		light amber	light amber	colourless	light amber
Viscosity at 25°C (mPa.s)	BROOKFIELD LVT	800	20	12	20
Density at 25°C	ISO 1675 : 1985	1.15	0.94	0.93	0.94

Mixing viscosity at 25°C (mPa.s)	BROOKFIELD LVT		225	210	225
Density of the cured product at 23°C	ISO 2781 : 1988		1.12	1.10	1.12
Pot life at 25°C on 500g (min)	Gel timer TECAM		45	135	225

## PROCESSING

*Caution: EPOLAM 5015 system must be cured (2 hrs at 50°C at least) to be demolded.*

*To obtain the desired temperature resistance and the optimal mechanical properties it is necessary to make a post-treatment of EPOLAM 5015 system. The thermal treatment takes place 24 to 48 hours after application according to the hardener. In order to avoid any distortion risks it is recommended to put the part on a frame before curing.*

*To allow a good beginning of polymerization of EPOLAM 5015/5016 system it is recommended to work at 20°C minimum.*

*For any further information concerning the Resin Infusion Method and ancillary products provided by Axson, please contact our Technical Support Department.*

MECHANICAL AND THERMAL PROPERTIES AT 23°C (1)					
			5014	5015	5016
Glass Transition Temperature (Tg)	D.S.C.- METTLER	°C			
- 7 days at 23°C			41	40	42
- 16h00 at 50°C			71	70	60
- 16h00 at 80°C			80	82	81
Flexural modulus	ISO 178 : 1993	MPa	2.900	3.000	2.800
Maximum flexural strength	ISO 178 : 1993	MPa	100	105	95
Tensile strength	ISO 527 : 1993	MPa	70	80	70
Elongation at break	ISO 527 : 1993	%	7	6	8
Hardness	ISO 868 : 1985	Shore D15	85	85	85

(1) Average values obtained on standardised specimens of neat resin / Hardening 24 hrs at 23°C + 16 hrs at 80°C.

## 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

Use within 24 months of the manufacturing date. Expiry date indicated on the packaging.

## PACKAGING

Resin EPOLAM 5015	Hardener EPOLAM 5014	Hardener EPOLAM 5015	Hardener EPOLAM 5016
20.0 kg	6,8 kg	6,0 kg	
220.0 kg	18.0 kg	18.0 kg	18.0 kg

## GUARANTEE

The information of our technical data sheet are based on our present knowledge and the result of tests conducted 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 refuse any guarantee about 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 guarantee conditions are regulated by our general sale conditions.