

APPLICATIONS

- EPOLAM 2019 allows the production of composite moulds and structures by infusion methods.

PROPERTIES

- High thermal resistance
- Good chemical resistance
- Good wetting and infiltrating performance
- High thickness laminates
- Curing at RT
- Strong adhesion

| PHYSICAL PROPERTIES | | | | |
|--------------------------------------|-----------------|-------------|-------------|-------------|
| | | RESIN | HARDENER | MIXING |
| Mixing ratio by weight | | 100 | 35 | |
| Aspect | | liquid | liquid | liquid |
| Colour | | light amber | light amber | light amber |
| Viscosity at 25°C (mPa.s) | BROOKFIELD LVT | 500 | 30 | 250 |
| Density at 25°C | ISO 1675 : 1985 | 1.15 | 0.92 | - |
| Density at 23°C of the cured product | ISO 2781 : 1996 | - | - | 1.12 |
| Pot life (500g) at 25°C (min) | | | | 95 |

PROCESSING

After mixing according to the indicated ratio impregnate the fiber reinforcement according to the laminating process. Hardening takes place 16 hours at room temperature.

Postcure to the following schedule with a temperature gradient of 30°C/hr:

- 2 hours at 60°C
- 2 hours at 80°C
- 4 hours at 100°C
- Let cool at maximum rate of 30°C/hr

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

EPOXY LAMINATING SYSTEM BY INFUSION

T_g 110 °C

MECHANICAL AND THERMAL PROPERTIES AT 23°C (1) (2)

| Property | Standard | Unit | Value |
|---|------------------|----------------------------------|-------|
| Glass Transition Temperature (T _g) | ISO 11359 : 2002 | °C | 110 |
| Flexural modulus | ISO 178 : 2001 | MPa | 3000 |
| Flexural strength | ISO 178 : 2001 | MPa | 118 |
| Tensile modulus | ISO 527 : 1993 | MPa | 3000 |
| Tensile strength | ISO 527 : 1993 | MPa | 70 |
| Elongation at break | ISO 527 : 1993 | % | 4 |
| Hardness | ISO 868 : 2003 | Shore D15 | 87 |
| Coefficient of thermal expansion (CTE) (+ 30°C to + 110°C) | ISO 11359 : 1999 | 10 ⁻⁶ K ⁻¹ | 62 |

(1) Average values obtained on standardised specimens / Hardening 16 hrs at 100°C

(2) These values have been determined on the pure resin (without reinforcement)

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

PACKAGING

| EPOLAM 2019 RESIN | EPOLAM 2019 HARDENER |
|-------------------|----------------------|
| 1x200 KG | 4x17.5 KG |
| 1x20 KG | 1x7 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.