

## DESCRIPTION

Production of composite parts requiring good flame resistance.

EPOLAM 2500 meets the requirements of Eurocopter specifications ECS 2196 Rev.B for interior fittings manufacture and repair.

## PROPERTIES

- Reduced toxicity (MDA free)
- Self-extinguishing FAR 25
- Temperature resistance 100 °C
- Good mechanical resistance

| PHYSICAL PROPERTIES                        |                 |             |             |             |
|--|-----------------|-------------|-------------|-------------|
| Composition                                |                 | RESIN       | HARDENER    | MIXING      |
| Mix ratio by weight                        |                 | 100         | 22          |             |
| Mix ratio by volume at 25 °C               |                 | 100         | 29          |             |
| Aspect                                     |                 | liquid      | liquid      | liquid      |
| Colour                                     |                 | light beige | light amber | light beige |
| Viscosity at 25 °C (mPa.s)                 | BROOKFIELD LVT  | 12,000      | 110         | 3,500       |
| Specific gravity at 25 °C                  | ISO 1675 : 1985 | 1.28        | 0.96        | -           |
| Specific gravity of cured product at 23 °C | ISO 2781 : 1996 | -           | -           | 1.21        |
| Pot life at 25 °C on 500 g (min)           | Gel Timer TECAM |             |             | 90          |

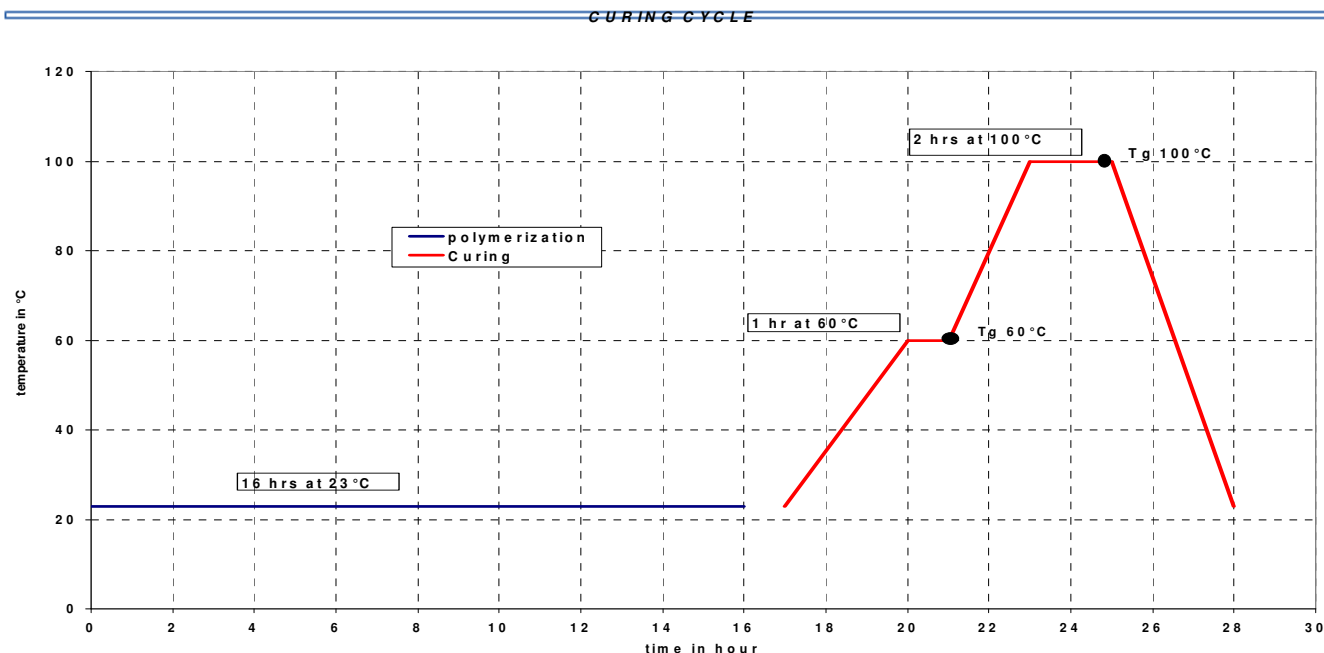
| MECHANICAL PROPERTIES at 23 °C (1)     |                  |                                   |       |
|--|------------------|-----------------------------------|-------|
| Flexural modulus                       | ISO 178 :2001    | MPa                               | 3,900 |
| Flexural strength                      | ISO 178 :2001    | MPa                               | 90    |
| Compressive strength                   | ISO 604 :2002    | MPa                               | 118   |
| Interlaminar Shear Strength (2)        | ISO 14130 : 1997 | MPa                               | 36    |
| Hardness                               | ISO 868 :2003    | Shore D1/ D15                     | 88    |
| Glass transition temperature           | ISO 11359 : 2002 | °C                                | 100   |
| Gelation time at 25 °C                 | TECAM            | min                               | 140   |
| Demoulding time at 25 °C               | -                | hr                                | 16    |
| Hardening time at 25 °C                | -                | d                                 | 4     |
| Coefficient of thermal expansion (CTE) | ISO 11359 : 1999 | 10 <sup>-6</sup> .K <sup>-1</sup> | 50    |

(1) : Average values obtained on standard specimens / Hardening 16hr at 23 °C + 2hr at 100 °C

(2) : Test specimen 10 plies of 7781 style glass fabric

## PROCESSING CONDITIONS

**Stir the resin. Prepare the mixing according to the indicated ratio, then carry out impregnation reinforcement materials using standard lamination techniques.**



## 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 CONDITIONS

Shelf life is 12 months for Resin and 24 months for Hardener, in a dry place and in original unopened containers, at a temperature between 15 and 25 °C. Any open can must be tightly closed under dry nitrogen blanket.

## PACKAGING

| RESIN     | HARDENER    |
|-----------|-------------|
| 1 x 6 kg  | 1 x 1.32 kg |
| 1 x 30 kg | 1 x 6.6 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