



BUILDING TRUST



EPOLAM 2500

Technical Data Sheet

FLAME RETARDANT LAMINATING SYSTEM

For FAR 25.853a Composite Laminating Applications

Description

Epolam 2500 is designed for production of composite parts requiring flame and temperature resistance. Epolam 2500 meets the requirements of FAR 25.853a and Eurocopter specification ECS.2196.20 for interior fittings manufacture and repair.

APPLICATIONS

- High performance flame retardant marine, architectural, aerospace, transportation applications
- Suitable for wet layup, vacuum-bagging

Properties

- No aromatic amines
- Self-extinguishing FAR 25
- High Modulus
- Good mechanical properties
- Temperature resistance 100°C
- RoHS and REACH compliant

Physical Properties

		Resin	Hardener
Composition		Epoxy	Amine
Mix Ratio, by weight		100	22
By volume		100	29
Appearance		Liquid	Liquid
Color		White	Light amber
Viscosity @ 77°F (25°C) mPa.s	Brookfield LVT	12,700	112
Density @ 77°F (25°C) Lbs./gal. (g/cc)	ISO 1675:1985	10.706 (1.28)	7.956 (0.96)
Viscosity, mixed @ 77°F (25°C) mPa.s	Brookfield LVT		3,190
Gel Time, 500g at 77°F (25°C)			78 minutes
Cured density @ 74°F (23°C) Lbs./gal (g/cm ³)	ISO 2781: 1985		10.07 (1.21)

PROCESSING CONDITIONS

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

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Neat Cured Properties Tested at 74°F (23°C)			
	Test Method	Unit(s)	Test Results
Glass Transition Temperature (Tg) * R.T. Cure **212°F Post-Cure	ASTM E1545	°F (°C)	139 (59) 220 (104)
Hardness * R.T. Cure **212°F Post-Cure	ASTM D-2240	Shore D	91 90
Flexural Strength * R.T. Cure **212°F Post-Cure	ASTM D790	psi (MPa)	8,733 (60.3) 9,790 (67.6)
Flexural Modulus * R.T. Cure **212°F Post-Cure	ASTM D790	psi (MPa)	699,992 (4,830) 593,023 (4,092)
Tensile Strength * R.T. Cure **212°F Post-Cure	ASTM D638	psi (MPa)	5,604 (38.7) 6,073 (41.9)
Tensile Modulus * R.T. Cure **212°F Post-Cure	ASTM D638	psi (MPa)	422,647 (2,916) 339,393 (2,342)
Tensile Elongation * R.T. Cure **212°F Post-Cure	ASTM-D638	%	1.5 2.1

*Cured-7 days at 77°F (25°C) **Cured 4 hours at 212°F (100°C)
Results are average values on laboratory prepared test samples

Composite Cured Properties Tested at 74°F (23°C)			
	Test Method	Unit(s)	Test Results
Flexural Strength * R.T. Cure **212°F Post-Cure	ASTM D790	psi (MPa)	38,076 (263) 38,666 (267)
Flexural Modulus * R.T. Cure **212°F Post-Cure	ASTM D790	psi (MPa)	1,917,779 (13,233) 1,694,618 (11,693)
Tensile Strength * R.T. Cure **212°F Post-Cure	ASTM D638	psi (MPa)	30,885 (213) 28,316 (195)
Tensile Modulus * R.T. Cure **212°F Post-Cure	ASTM D638	psi (MPa)	820,545 (5,662) 737,544 (5,089)
Tensile Elongation * R.T. Cure **212°F Post-Cure	ASTM D638	%	6.7 6.3

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STORAGE CONDITIONS

This product has a shelf life of 12 months as indicated by the expiration date on the container when stored in original unopened containers between 59 – 77°F (15 – 25°C). Any opened can must be tightly closed.

HANDLING PRECAUTIONS

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

- Ensure good ventilation
- Wear gloves, and safety glasses

For additional information, please consult the Safety Data Sheet (SDS).

DISCLAIMER

The information contained in this technical data sheet results from research and tests conducted in our laboratories under precise conditions. Seller cannot anticipate all conditions under which seller's products, or the products of other manufacturers in combination with seller's products, may be used. It is the responsibility of the user to determine the suitability of the SikaAxson's products, under their own conditions, before commencing with the proposed application. In no event shall SikaAxson US be liable for any direct, indirect, punitive, incidental, special, and/or consequential damages, to property or life, whatsoever arising out of or connected with the use or misuse of our products.

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