Epolam 2500

Technical Data Sheet

Fire Retardant laminating system

FAR 25.853 Tg 212°F (100°C)

Description

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

Properties

- *No aromatic amines*
- *Self-extinguishing FAR 25*
- *Good mechanical properties*
- *Temperature resistance 100°C*

Physical Properties			
		Resin	Hardener
Composition		Epoxy	Amine
Mix Ratio, by weight By volume		100 100	22 29
Appearance		Liquid	Liquid
Color		Light beige	Light amber
Viscosity @ 77°F (25°C) mPa.s	Brookfield LVT	12,000	110
Density @ 77°F (25°C) (g/cc)	ISO 1675:1985	1.28	0.96
Viscosity, mixed @ 77°F (25°C) mPa.s	Brookfield LVT		3,500
Pot life, 500g at 77°F (25°C)			90 minutes
Cured density @ 74°F (23°C) (g/cm^3)	ISO 2781: 1985		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..

AXSON TECHNOLOGIES US
+1 248 588 2270
axsonmh@axson.com
axson-na.com

CHINA
+86 21 58 68 30 37
marketing.china@axson.com

GERMANY
+49 6 07 44 07 11-0
verkauf@axson.com

INDIA
+91 20 25 56 07 10-11
info.india@axson.com

ITALY
+39 02 96 70 23 36
axson@axson.it

JAPAN
+81 5 64 26 25 91
sales.japan@axson.com

MEXICO
+52 55 52 64 49 22
marketing@axson.com.mx

MIDDLE EAST
+971 7 2432227
axsonmideast@axson.com

SLOVAKIA
+42 1 76 42 25 26
axson.sk@axson.com

SPAIN
+34 9 32 25 16 20
spain@axson.com

U.K.
+44 16 38 66 00 62
sales.uk@axson.com

FRANCE
Global Headquarters
+33 1 34 40 34 60
axson@axson.com
axson-technologies.com

Cured Properties at 74°F (23°F) [1]			
Glass Transition Temperature (Tg)	D.S.C. – Mettler	°F (°C)	212 (100)
Hardness	ASTM D-2240	Shore D	88
Compressive Strength	ASTM D695	psi (MPa)	17,000 (118)
Flexural Strength	ASTM D790	psi (MPa)	13,000 (90)
Flexural Modulus	ASTM D790	psi (MPa)	565,000 (3,900)
Interlaminar Shear Strength[2]	ISO 14130 : 1997	psi (MPa)	5,200 (36)
Gelation time at 25°C	TECAM	min	140
Demolding time at 25°C	-	hr	16
Hardening time at 25°C	-	d	4
Coefficient of thermal expansion (CTE)	TMA	$10^{-6}.F^{-1}$ (K^{-1})	28 (50)

[1]Average values on laboratory prepared test samples of neat (unreinforced) resin, Hardening 16hr at 23°C + 2hr at 100°C
[2]Test specimen 10 plies of 7781 style glass fabric

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 further information, please consult the material safety data sheet.

Guarantee

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 Axson Technologies' products, under their own conditions, before commencing with the proposed application. In no event shall Axson Technologies, Inc. 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.

AXSON TECHNOLOGIES US
+1 248 588 2270
axsonmh@axson.com
axson-na.com

CHINA
+86 21 58 68 30 37
marketing.china@axson.com

GERMANY
+49 6 07 44 07 11-0
verkauf@axson.com

INDIA
+91 20 25 56 07 10-11
info.india@axson.com

ITALY
+39 02 96 70 23 36
axson@axson.it

JAPAN
+81 5 64 26 25 91
sales.japan@axson.com

MEXICO
+52 55 52 64 49 22
marketing@axson.com.mx

MIDDLE EAST
+971 7 2432227
axsonmideast@axson.com

SLOVAKIA
+42 1 76 42 25 26
axson.sk@axson.com

SPAIN
+34 9 32 25 16 20
spain@axson.com

U.K.
+44 16 38 66 00 62
sales.uk@axson.com

FRANCE
Global Headquarters
+33 1 34 40 34 60
axson@axson.com
axson-technologies.com