AL 2108

Technical Data Sheet

Epoxy Laminating System
Clear, Room Temperature

DESCRIPTION

AL 2108 is a general purpose, low toxicity, unfilled epoxy resin system designed specifically for use with glass or organic fabrics for lamination and bonding applications. It is a room temperature curing system for use at ambient conditions. AL 2108 has a moderate pot life along with excellent physical properties and dimensional stability. The pot life of any laminating resin is an important consideration when evaluating the overall size, thickness and layup speed of a job. Slower hardeners are preferable for large laminates and for all bagging procedures.

APPLICATIONS

- *Prototypes, patterns and core boxes*
- *Master models, Keller Models*
- *Potting bushings*
- *Trim, holding, and checking fixtures*
- *Duplication splashes*
- *Drill fixtures*

PROPERTIES

- *Cures in a thin film*
- *Excellent chemical and water resistance*
- *Suitable as a binder resin for back-fill applications*
- *Low odor – NO BGE*
- *Fast wet out*

PHYSICAL PROPERTIES			
		AL 2108 Resin	**AL 2108 Hardener**
Composition		**Epoxy**	**Amine**
Mix ratio by weight		100	25
Aspect		Liquid	Liquid
Color		Clear	Clear amber
Mixed viscosity at 77° F (25° C) (mPa.s)	ASTM D2393		1,200
Mixed specific Gravity at 77° F (25° C)	ASTM D792		1.11
Pot life at 77° F (25° C) 1 pound (454 gram) mass in minutes	ASTM D2471		20 - 30
Demold time (hours)			8 - 12

PROCESSING

Carefully weigh out appropriate amounts of resin and hardener into clean mixing container and thoroughly mix until all streaks and striations are gone. Take extra care to scrap the sides and bottom frequently to insure complete mixing. CAUTION: Unmixed compound from sides or bottom can cause soft spots or uncured areas in the completed casting. To prevent this it is advisable to transfer entire mixture to second clean container and remix for short time before using.

AXSON NA USA
1611 Hults Drive
Eaton Rapids, MI
48827
Tel. (517) 663-8191
Fax (517) 663-0523
Email : info@axson-na.com

AXSON GmbH
Dietzenbach
Tél. (++49) 60 74 407110

AXSON Italie
Saronno
Tel. (++39) 02 96 70 23 36

AXSON IBERICA
Barcelona
Tel. (++34) 93 225 16 20

AXSON UK Limited
Newmarket
Tel. (++44) 1638 660 062

AXSON BRASIL
Sao Paulo
Tel. (++55) 11 5687 7331

AXSON MEXICO
Mexico DF
Tel. (++52) 55 5264 49 22

AXSON SHANGHAI
Shanghai
Tel. (++86)-58 68 30 37

AXSON France
Cergy
Tél. (++33) 1 34 40 34 60
Email : axson@axson.fr

AXSON JAPAN
OKAZAKI CITY
Tel.(++81) 564 26 2591

MECHANICAL and THERMAL PROPERTIES(1)				
Properties	Method	Unit	AL 2108 Neat	AL 2108 Glass Laminate
Volumetric weight		lbs/in^3 (g/cc)	0.040 (1.11)	-
Hardness	ASTM D2240	Shore D1	85 - 90	-
Tensile Strength	ASTM D638	psi (MPa)	7,000 (48)	25,900 (203)
Flexural Strength	ASTM D790	psi (MPa)	13,000 (90)	35,800 (247)
Flexural Modulus	ASTM D790	psi (MPa)	2.1 x 10^6 (14,500)	
Compressive Strength	ASTM D695	psi (MPa)	19,500 (134)	-
Edgewise Compressive Strength	ASTM D695	psi (MPa)	-	40,000 (276)
Shrinkage	ASTM D2566	%	0.2	-
Coefficient of Thermal Expansion	TMA	ppm/° F (° C)	34 (61)	-
Tg	TMA	° F (° C)	154 (68)	-
Maximum service temperature		° F (° C)	185 (85)	185 (85)

(1) *The above properties were obtained under laboratory conditions using standardized specimens. Cured 7 days at room temperature*

STORAGE CONDITIONS

Shelf life is 12 months in a dry place and in original unopened containers at a temperature 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, safety glasses and impervious clothes.*

For further information, please consult the material safety data sheet.

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

AXSON NA USA
1611 Hults Drive
Eaton Rapids, MI 48827
Tel. (517) 663-8191
Fax (517) 663-0523
Email : info@axson-na.com

AXSON GmbH
Dietzenbach
Tél. (++49) 60 74 407110

AXSON Italie
Saronno
Tel. (++39) 02 96 70 23 36

AXSON IBERICA
Barcelona
Tel. (++34) 93 225 16 20

AXSON UK Limited
Newmarket
Tel. (++44) 1638 660 062

AXSON BRASIL
Sao Paulo
Tel. (++55) 11 5687 7331

AXSON MEXICO
Mexico DF
Tel. (++52) 55 5264 49 22

AXSON SHANGHAI
Shanghai
Tel. (++86)-58 68 30 37

AXSON France
Cergy
Tél. (++33) 1 34 40 34 60
Email : axson@axson.fr

AXSON JAPAN
OKAZAKI CITY
Tel.(++81) 564 26 2591