



Adhesive Prepregs for Composite Manufacturers, LLC

DA 409U/S2-Glass Unidirectional S2-glass epoxy prepreg

DESCRIPTION

DA409U/S2-glass is a tough, versatile, modified epoxy resin prepreg that cures at 250°F. The S-2 glass is a Zentron High Strength fiber. Standard weight is 260g/m² with a 38% resin content. Other weights and resin contents available upon request.

PHYSICAL PROPERTIES

Uncured

Weight:	.083lbs./sq ft
Thickness:	..011
Resin Content:	42% by Weight
Volatiles:	Less than 1%
Gel Time:	12 min@250°F
Shelf Life:	One year at 0°F Six months at 40°F Twenty days at 75°F
Standard Roll:	12 inches wide by 120 yds. long

MECHANICAL PROPERTIES

Cure Cycle: Press cured for one hour at 250°F and 50 psi pressure

Thickness:

Resin Content : 38% by weight

Flexural Strength:	(ASTM D 790)	@75°F	112 KSI
Flexural Modulus:		@75°F	4.1 MSI
Tensile Strength:	(ASTM D 3039)	@75°F	181 KSI

ADHESIVE PREPREGS FOR COMPOSITES MANUFACTURERS

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DA409U/S2-Glass Uni

CURE CYCLE

The prepreg may be cured using either standard heat-up methods or in-hot , out-hot press applications. Other curing methods may be used such as vacuum bagging or auto clave. A pressure of 30 psi is recommended, however pressures of 10 t 50 psi may be used.

STORAGE

Store material in a contaminate free container and store a 0°F for extended storage. For shorter storage time requirements store at 40°F, this enables quicker stabilization and less condensation build up on material.

APPLICATION

Remove material from cold storage at least 20 hours prior to use to allow for stabilization at room temperature. Keep material wrapped to prevent moisture form condensing on the prepreg.

CLEAN UP

The uncured adhesive can be removed from no-bonding areas with ketones or methylene chloride. Be sure to follow all Material Safety Data Sheet (MSDS) guidelines for the solvent to be used.

CAUTION

This material contains epoxy resins and amines which may cause irritation to sensitive skin. Avoid contact with eyes or skin. If contact with skin occurs, wash as soon as possible with soap and water. If contact with eyes occurs, flush with water for 15 minutes. Do not handle or use this material until Material Safety Data Sheet has been read and understood. The user of this material is required to use the necessary protective equipment as directed by applicable state and federal laws when handling, curing, and grinding this material.

IMPORTANT NOTICE

Information in this data sheet has been obtained under controlled laboratory conditions and is believed to be accurate. Properties listed are typical values and are not intended for use in preparing specifications. Actual values may vary. No warranty is expressed or implied for which APCM assumes legal responsibility. APCM cannot be responsible for misapplication or handling and use under conditions beyond its control and under no circumstances shall be liable for incidental or consequential damage resulting from handling or use of this material.

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