

Advanced Materials

Epibond[®] 1590 A/B Epoxy Adhesive

- Toughened
- Performance to 350°F (177°C)
- Low Sag Paste

DESCRIPTION:

Epibond[®] 1590 A/B epoxy adhesive is a two-part paste designed for service up to 350°F (177°C). The generalpurpose structural epoxy adhesive is designed for bonding metals, composites, and many other dissimilar materials. It can be used for potting, filling and liquid shim applications. Epibond[®] 1590 A/B epoxy adhesive can be extruded from a dual-barrel cartridge mixing kit.

<u>1590-A</u> Resin	<u>1590-B</u> Hardener	<u>1590-A/B</u> System	Test Method
Tan	Amber	Beige	Visual
1.20	1.00	1.10	ASTM-D-792
60,000	100,000	86,000	ASTM-D-2196
		25	ASTM-D-2471
	<u>Resin</u> Tan 1.20 60,000	ResinHardenerTanAmber1.201.0060,000100,000	Resin TanHardener AmberSystem Beige1.201.001.1060,000100,00086,000

MIX RATIO :

To 100 parts by weight of Epibond[®] 1590 A resin, add 55 parts by weight of Epibond[®] 1590 B hardener (3:2 by volume). Mix both components thoroughly for several minutes until a homogeneous mixture is obtained.

CURE SCHEDULE :

Gel at room temperature - plus 2 hours at 100°C (212°F) or 5 days at 40°C (105°F).

TYPICAL CURED PRO	OPERTIES (Not for specification	ation purposes)	
<u>Test</u>		Result	Test Method
Tensile lap shear stren	gth, AL/AL, psi (MPa)		
	at 75ºF (23°C)	3,500 (24.1)	ASTM-D-1002
	at 350°F (177°C)	700 (4.8)	
Bell Peel, pli (N/mm)			
	at 75ºF (23°C)	15 (2.6)	ASTM-D-3167



STORAGE:

Epibond[®] 1590 A/B should be stored in a dry place, in the sealed original container, at temperatures between +2°C and +40°C (+35.6°F and 104°F). The product should not be exposed to direct sunlight. Under these storage conditions, and when supplied under Huntsman standard certification, this product has a shelf life of 1 year (expiration date may differ based on customer specification).

Material temperatures should be above 18°C (65°F) when mixing. After use, tightly reseal containers.

PRECAUTIONARY STATEMENT:

Huntsman Advanced Materials Americas LLC maintains up–to-date Material Safety Data Sheets (MSDS) on all of its products. These sheets contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products. Users should review the latest MSDS to determine possible health hazards and appropriate precautions to implement <u>prior to</u> using this material.

First Aid!

Refer to MSDS as mentioned above.

KEEP OUT OF REACH OF CHILDREN

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