



SynSpand[®] EA9835

Expanding Syntactic Film

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Description

SynSpand[®] EA 9835 is an expanding modified epoxy film that is supplied as a continuous film of controlled areal weight and width. It may be cured at 300°F (150°C). Commonly used for Abradable seals, which require high erosion resistance.

Features

Tailored Density Range - 25 lb pcf – 40 lb pcf
Erosion Resistance
Moisture Resistance
Environmental resistance
Consolidation pressures 40 - 100 psi for closed mold processing
Mold to Net Shape
Compatible Repair Paste; EA9891RP

Product Forms

12" x 24" Sheets 20 Sheets per box

Handling

Store @ 0°F (-18°C)

This product is in sheet film form and is ready to use as received. Material should be removed from cold storage and allowed to warm to room temperature before removing the protective packaging. This material has protective liners on it which must be removed prior to parts assembly (see "Applying" below). The liners will always be a contrasting color from the material to allow the user easy confirmation of removal.

Warranty Life - Product requires refrigerated storage. Store @ 0°F (-18°C) or below for maximum storage life. Warranted life @ 0°F (-18°C) or below is 12 months. Store in sealed desiccated MIL B 131 H Class 1 Type 1 bag provided. Allow adequate time for the container to warm to room temperature before opening for use.

Applying – Product is a pliable film with tack and drape. Product can be cut to any desired shape using ordinary razor knives or scissors. Razor knives using templates as guides work best. After cutting the material you can remove the polyethylene release film by peeling back from a corner.

Open Assembly Time – Product must be used within the following schedule after removing from cold storage:

@ 77°F (25°C) – 15 days

@ 90°F (32°C) – 5 days

Curing – Cure is accomplished in 90 minutes @ 300°F (121°C)

Typical Performance Properties

ASTM G-76 Erosion Test Data

Test Temperature : 75 °F
Material Density(g/cm³): 0.648
Material Size: 1"x1"x0.5" nominal

Particle Velocity: 30 m/sec
Particle Feed Rate(g/min): 2
Impingement Angle (degrees): 45

Initial Weight (grams)	Final Weight (grams)	Exposure Time (sec)	Total Exposure Time (sec)	Specimen Weight Change (grams)	Total Change (grams)	Specimen Volume Loss (cm ³)	Total Loss (cm ³)	Total Abrasive Used (grams)	Erosion Rate (mm ³ /g)
Specimen ID: 9835									
5.1497	5.1493	30	150	0.0004	0.0016	0.00062	0.00247	5.0	(0.61728)

Handling Precautions

Do not handle or use until the Material Safety Data Sheet has been read and understood.
For industrial use only.

General:

As with most epoxy based systems use this product with adequate ventilation. Do not get in eyes or on skin. Avoid breathing the vapors. Wash thoroughly with soap and water after handling.

Note

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, **Henkel Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits.** The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Henkel Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications.

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