



## SUN PROCESS Product Information Data

### SU-PRO® AL SERIES DEAD SOFT ALUMINUM FOIL PRESSURE SENSITIVE

<u>SERIES NUMBER</u>	<u>MATERIAL THICKNESS</u>	<u>WITH ADHESIVE</u>
AL200	2.0 mil	3.0 mil
AL500	5.0 mil	6.0 mil

*Thickness  $\pm$  10%, including adhesive*

*The following characteristics are on typical laboratory data:*

- DESCRIPTION:** Aluminum foil (zero temper) coated with a permanent pressure sensitive adhesive.
- APPLICATION IDEAS:** SU-PRO® AL series has been developed for product EMI (electro magnetic interference) and RFI (radio frequency interference) shields or for sealing when an aluminum foil tape is desirable.
- ADHESIVE:** SP90 is a permanent synthetic rubber pressure sensitive adhesive that offers high tack, peel, and shear values, and allows bonding to any clean, smooth, wax-free surface.
- LINER:** A 78 lb. clay coated, bleached, densified kraft release liner, silicone coated one side, protects the adhesive prior to application and allows the film to remain flat in sheet or roll form.
- PRODUCT VARIATIONS:** This product is available with a variety of permanent and removable adhesives, including SP36 permanent acrylic, and release liners. SP36 is recommended for use on plasticized products and when elevated temperatures exist. For specific applications, consult your Sun Process Sales Consultant.
- For improved ink adhesion, top coating is available for processes such as flexographic, offset, letterpress, and screen printing.
- ADHESION:** SP90 Adhesive  
(PSTC-101)\* 180° peel values for SP90 rubber pressure sensitive adhesive, with 1 mil adhesive thickness.
- |                         |                    |                    |
|-------------------------|--------------------|--------------------|
| <u>Dwell Time</u>       | <u>AL200</u>       | <u>AL500</u>       |
| Initial                 | 133 oz./inch width | 171 oz./inch width |
| 24 hours at 72°F (22°C) | 150 oz./inch width | 175 oz./inch width |
| 1 week at 158°F (70°C)  | 153 oz./inch width | 205 oz./inch width |
- (PSTC-107)\* shear adhesion, 1000 gram load (1 inch<sup>2</sup>) with 1 mil adhesive thickness.
- |                         |                         |
|-------------------------|-------------------------|
| <u>AL200</u>            | <u>AL500</u>            |
| 500+ hours / No Failure | 500+ hours / No Failure |

**ADHESION**  
**(Continued):**

SP36 Adhesive

(PSTC-101)\* 180° peel values for SP36 acrylic pressure sensitive adhesive, with 1 mil adhesive thickness.

Dwell Time

AL200

AL500

Initial

45 oz./inch width

55 oz./inch width

24 hours at 72°F (22°C)

60 oz./inch width

65 oz./inch width

1 week at 158°F (70°C)

70 oz./inch width

87 oz./inch width

(PSTC-107)\* shear adhesion, 1000 gram load (1 inch<sup>3</sup>) with 1mil adhesive thickness.

AL200

AL500

200+ hours / No Failure

200+hours / No Failure

*\*Data are averages and are not to be used for specification purposes.*

**DIMENSIONAL  
STABILITY:**

Excellent.

**HUMIDITY  
RESISTANCE:**

Excellent

**WATER  
RESISTANCE:**

Excellent. Test piece aged 24 hours after application to stainless steel panel before testing—not affected when immersed in 70°F (21°C) water for seven (7) days.

**SOLVENT  
RESISTANCE:**

Good resistance to most petroleum solvents and lower aliphatic alcohols. Poor towards most esters and ketones.

**SERVICE  
TEMPERATURE  
RANGE:**

-65°F to 300°F (-54°C to 149°C)

**MINIMUM  
APPLICATION  
TEMPERATURE:**

40°F (4°C)

**COLORS  
AVAILABLE:**

Silver      AL200      AL500

**STORAGE:**

Store under normal conditions of 60°F to 80°F (16°C to 27°C) and 40-60% R.H. in the original carton.

**SHELF LIFE:**

To obtain best performance, use this product within twelve (12) months from date of manufacture.

**ISO 9001:2015**

*This Sun Process product was manufactured under our quality system registered to ISO 9001:2015 standards*

**TECHNICAL INFORMATION**

*The technical information, recommendations and other statements contained in this document are based upon tests or experience that Sun Process believes are reliable, but the accuracy or completeness of such information is not guaranteed. They do not relieve the purchaser from the responsibility of examining the products upon delivery or provide assurance of the products suitability for a particular purpose.*

*Suitability for any given application is the sole responsibility of the user.*

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