FILMS

# SUN PROCESS
# Product Information Data

## SU-PRO® AL/PP SERIES
## ALUMINUM FOIL WITH FLAME RETARDANT POLYPROPYLENE LAMINATION

| SERIES NUMBER | MATERIAL THICKNESS | WITH ADHESIVE |
|---|---|---|
| AL/PP1300 | 13.0 mil | 18.0 mil |
| AL/PP2000 | 20.0 mil | 25.0 mil |

*Thickness ± 10%, including adhesive*
***The following characteristics are on typical laboratory data:***

**DESCRIPTION:** 2 mil dead soft aluminum foil laminated to flame retardant polypropylene. This product offers excellent dimensional stability, sturdiness, moisture resistance, and EMI/RFI (electro magnetic interference/radio frequency interference) shielding properties.

**APPLICATION IDEAS:** This product was developed to provide EMI/RFI shielding. It can also be used for production identification, coding, etc., as part/code numbers may be embossed during the die cutting operation.

**ADHESIVE:** SPL02 is a polyester urethane laminating adhesive, which provides a high level of heat and chemical resistance.

For exceptional scoring and bending properties, it is recommended that a minimum of 5 mils of laminating adhesive be substituted for SPL02.

**PRODUCT VARIATIONS:** This product is available in 13 mil and 20 mil overall thickness, using 2 mil dead soft aluminum foil and SPL02 laminating adhesive. The polypropylene is available in natural (white) or black. Using a minimum of 5 mils of laminating adhesive gives improved durability of score and fold. This product is also available with pressure sensitive adhesive backing. For specific applications, consult your Sun Process Consultant.

**FEATURES:**

- Die cuttable.
- Suitable for hot stamping, silk screening, and pad printing when top coated.
- Flame retardant polypropylene substrate is UL 94VTM-O/V-O and has high dielectric strength and acts as an excellent insulator.
- Moisture resistant.
- Flame retardant.

**PRODUCT DATA:**

| Physical Properties | Value |
|---|---|
| Thickness (mils): | |
| Aluminum | 2.0 mils |
| SPL01 | 1.0 mils |
| Polypropylene | 10 mils or 17 mils |

**UL Recognized Flame Retardant Polypropylene, Formex GK10 and Formex GK17 are available in black or natural color.*

**ADHESION:**

(PSTC-101)* 180° peel adhesion (aluminum to polypropylene), SPL02 (oz./in.)

| | |
|---|---|
| 15 min | 100 |
| 24 hour | 120 |
| Ultimate | 135 |

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

**DIMENSIONAL STABILITY:**

Excellent. No measurable shrinkage on applied parts.

**WATER RESISTANCE:**

Excellent. Test piece aged 24 hours after application. Not affected when immersed in 70°F (21°C) water for seven (7) days.

**HUMIDITY RESISTANCE:**

Excellent.

**SOLVENT RESISTANCE:**

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

**SERVICE TEMPERATURE RANGE:**

-40°F to 250°F (-40°C to 121°C)

**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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