



# SUN PROCESS

## Product Information Data

### SU-PRO® PC SERIES

#### FLEXIBLE CLEAR RIGID HIGH PERFORMANCE VELVET MATTE POLYCARBONATE OVERLAMINATING FILMS

<u>SERIES NUMBER</u>	<u>MATERIAL THICKNESS</u>	<u>WITH ADHESIVE</u>
PC500GC	5.0 mil	6.2 mil
PC1000HC	10.0 mil	12.0 mil

*Thickness ± 10%, including adhesive*

*The following characteristics are on typical laboratory data:*

**DESCRIPTION:** SU-PRO® flexible clear rigid high performance velvet matte polycarbonate films provide rigidity to printed images. These laminates allow images to be shown in non-flat configurations while providing protection for surfaces prone to abuse.

**APPLICATION IDEAS:** SU-PRO® overlaminating films are intended for use as high performance durable films to enhance and protect images from abuse and UV fading of printed matter.

**ADHESIVE:** SP1-22 is an ultra clear permanent acrylic pressure sensitive adhesive. SP1-22 possesses the smooth, even flow out characteristics required for its application as a pressure sensitive overlaminating film. The flow out characteristics of the adhesive can be enhanced by the application of heat during the lamination process.

**LINER:** A 1.2 mil clear PET liner is the standard release liner used for this high performance film. Alternate release liners are available with a minimum purchase requirement. Please consult your Sun Process Sales Consultant.

**ADHESION:** (PSTC-101)\* 180° peel values for SP1-22 acrylic pressure sensitive adhesive. 15 minute dwell time with 1 mil adhesive thickness:

50 oz./inch width

(PSTC-107)\* shear adhesive, 1000 gram load on polyester film (1 inch<sup>2</sup>) with 1 mil adhesive thickness:

100 hours/no failure

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

**DIMENSIONAL STABILITY:** Excellent. No measurable shrinkage on applied parts.

<b>TRANSPARENCY:</b>	Film and/or adhesive will exhibit no yellowing or loss of transparency after two (2) years with normal vertical exterior exposure.
<b>ABRASION RESISTANCE:</b>	Excellent.
<b>WATER RESISTANCE:</b>	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.
<b>HUMIDITY RESISTANCE:</b>	Excellent.
<b>SOLVENT RESISTANCE:</b>	Good resistance to most petroleum solvents and lower aliphatic alcohols.
<b>SERVICE TEMPERATURE RANGE:</b>	-20°F to 200°F (-29°C to 93°C)
<b>MINIMUM APPLICATION TEMPERATURE:</b>	50°F (10°C)
<b>STORAGE:</b>	Store under normal conditions of 60°F to 80°F (16°C to 27°C) and 40-60% R.H. in the original carton.
<b>SHELF LIFE:</b>	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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