



POLYCARBONATE COMPOSITE PRODUCT LINE

DEFINITION

Polycarbonate Composite Prelam is a patented pre laminate product manufactured by CompoSecure, LLC that contains laser reactive Polycarbonate. Utilizing CompoSecure's materials science technology, our PC Composite Prelam transforms standard secure documents into consistently durable, ID cards and E-Passport Bio-pages with maximum security. During laser personalization, the Polycarbonate material is altered at the molecular level, thus transforming the material itself. Therefore, would-be counterfeiters would destroy the secure document itself, rather than creating a forgery.

OPTIONS AVAILABLE

The following product options are currently available:

PRODUCT CODE

DESCRIPTION AND FORM FACTOR

PL5PCLR

.005" Laser Reactive Polycarbonate Composite, available in roll form only. Please note that this option is laser reactive only, not D2T2 imageable.

PL10PCILR

.010" D2T2 Imageable and Laser Reactive Polycarbonate Composite, available in rolls or sheet form. This option is both D2T2 printable, and laser reactive.

PERFORMANCE

One sheet of .005" or .010" PC Composite Prelam is placed on either side of core material (2 sheets total) of a standard .030" buildup. White PVC is printed (.020" or .010", or some combination thereof) and laminated in the center of the two Prelam sheets. Generally, white PVC or some combination of PVC and/or PET is used for the center of the laminated sheet. Due to the fact that the PC Composite Prelam utilizes humidity resistant materials, secure documents withstand ISO 10343 severe service prolonged humidity tests. When industry standard adhesive coated PC is used, secure documents fail the prolonged humidity test (layers separate and the document falls apart) due to the fact that the adhesives are water-based.

APPLICATIONS

PC Composite Prelam is ideally suited to create Driver's Licenses, National ID Cards, E-Passport Bio-pages, as well as other secure document applications.

ECONOMICS/PRICING

While the purchase price of PC Composite Prelam is comparable to other Polycarbonate based materials, the real savings occurs with its ease of use. With the use of PL5PCL, lower cost center core substrates may be used, such as PVC. Therefore, a less costly document can be achieved without sacrificing security and durability as compared to a 100% PC document. In addition, standard industry equipment, i.e. collators and laminators may be used at standard PVC lamination cycles to laminate this material. Standard die-cutting equipment is also compatible with this product.

MORE INFORMATION/CONTACT

Please contact CompoSecure directly for pricing based upon your custom specifications. Minimum order size is 1000 linear feet. Custom PC Composite Prelam thicknesses and compositions are available, including Laser Reactive Polycarbonate sub-surface, as well as polyester durability enhanced.