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## **PRELAM PRODUCT LINE**

Patent #: 6,644,552

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# PRELAM PRODUCTS

(Patent #: 6,644,552)

CompoSecure, LLC offers Prelam products in the following configurations:

## STANDARD PRELAM PRODUCTS:

Product/Description	Features	Benefits
PL5C: Clear Standard Prelam 5 mil (Clear buffer layer two sides)  PL5W: White Standard Prelam 5 mil (White buffer layer one side, clear buffer layer one side)	Patented dye diffusion thermal transfer imageable .005” polyester composite material that can be positioned in the center or as the two outside laminates of the sandwich. This proprietary material can withstand 500,000 flexes, thus making it the most durable plastic card material in the world. This product is available in sheet or roll form.	1 sheet placed in the center of the sandwich extends card life to 5 years (PL5C only).  1 sheet placed on either side of core material (2 sheets total) extends card life to 8 years. When this configuration is used in roll form, standard Industry wide “gathering” equipment can run this material to automate the process.
PL6C: Clear Standard Prelam 6 mil (Clear buffer layer two sides)  PL6W: White Standard Prelam, 6 mil (White buffer layer one side, clear buffer layer one side)	Patented dye diffusion thermal transfer imageable .006” polyester composite material that can be positioned in the center or as the two outside laminates of the sandwich. This proprietary material can withstand 500,000 flexes, thus making it the most durable plastic card material in the world. This product is available in sheet or roll form.	1 sheet placed in the center of the sandwich extends card life to 7 years (PL6C only).  1 sheet placed on either side of core material (2 sheets total) extends card life to 10 years. When this configuration is used in roll form, standard Industry wide “gathering” equipment can run this material to automate the process.

\*Please note that card life is based upon an identification card used under normal circumstances.

\*\*Standard Prelam products are **NOT** meant for use with card designs that include inks that bleed off the edge of the card.

\*\*\*CompoSecure’s white Prelam is suggested as a replacement for industry standard white Polyester, as well as for applications where 2D barcodes are required. With the use of CompoSecure white Prelam, the Z Axis failure normally seen in cards manufactured with white PET is eliminated.



## PRELAM PRODUCTS

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### PRELAM LITE PRODUCTS:

Product/Description	Features	Benefits
<p>PL3CL: Clear Prelam Lite 3 mil (Clear buffer layer two sides)</p> <p>PL3WL: White Prelam Lite, 3 mil (White buffer layer one side, clear buffer layer one side)</p>	<p>Patented dye diffusion thermal transfer imageable .003” polyester composite material that can be positioned as the two outside laminates of the sandwich. This proprietary material can withstand 70,000 flexes. This product is available in sheet or roll form.</p>	<p>Not recommended for buildups where 1 sheet placed in the center of the sandwich.</p> <p>1 sheet placed on either side of core material (2 sheets total) extends card life to 5 years.</p> <p>When this configuration is used in roll form, standard Industry wide “gathering” equipment can run this material to automate the process.</p>
<p>PL5CL: Clear Prelam Lite 5 mil (Clear buffer layer two sides)</p> <p>PL5WL: White Prelam Lite, 5 mil (White buffer layer one side, clear buffer layer one side)</p>	<p>Patented dye diffusion thermal transfer imageable .005” polyester composite material that can be positioned as the two outside laminates of the sandwich. This proprietary material can withstand 140,000 flexes. This product is available in sheet or roll form.</p>	<p>Not recommended for buildups where 1 sheet placed in the center of the sandwich.</p> <p>1 sheet placed on either side of core material (2 sheets total) extends card life to 7 years.</p> <p>When this configuration is used in roll form, standard Industry wide “gathering” equipment can run this material to automate the process.</p>
<p>PL6CL: Clear Prelam Lite 6 mil (Clear buffer layer two sides)</p> <p>PL6WL: White Prelam Lite, 6 mil (White buffer layer one side, clear buffer layer one side)</p>	<p>Patented dye diffusion thermal transfer imageable .006” polyester composite material that can be positioned as the two outside laminates of the sandwich. This proprietary material can withstand 140,000 flexes. This product is available in sheet or roll form.</p>	<p>Not recommended for buildups where 1 sheet placed in the center of the sandwich.</p> <p>1 sheet placed on either side of core material (2 sheets total) extends card life to 9 years.</p> <p>When this configuration is used in roll form, standard Industry wide “gathering” equipment can run this material to automate the process.</p>

\*Please note that card life is based upon an identification card used under normal circumstances.

\*\*Prelam Lite products are **NOT** meant for use with card designs that include inks that bleed off the edge of the card.

\*\*\*CompoSecure’s white Prelam is suggested as a replacement for industry standard white Polyester, as well as for applications where 2D barcodes are required. With the use of CompoSecure white Prelam, the Z Axis failure normally seen in cards manufactured with white PET is eliminated.

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*The following product enhancements are available for both Standard and Prelam Lite products:*

<b>Product/Description</b>	<b>Features</b>	<b>Benefits</b>
PL5C-M/PL5CL-M: Magnetic Stripe	A .005” Prelam with a low or high coercivity magnetic stripe applied in register. This item is available in sheet or roll form. This product is available in sheet or roll form.	This product allows for automation of the magnetic stripe application process, while yielding a 10-year life card, i.e. can run on standard Industry wide “gathering” equipment.
PL6C-M/PL6CL-M: Magnetic Stripe	A .006” Prelam with a low or high coercivity magnetic stripe applied in register. This item is available in sheet or roll form. This product is available in sheet or roll form.	This product allows for automation of the magnetic stripe application process, while yielding a 10-year life card, i.e. can run on standard Industry wide “gathering” equipment.
Custom Prelam	Custom Prelams designed to customer specifications	One-of-a-kind security products which are not available in the marketplace.

## PRELAM PRODUCTS

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### **METALIZED, HOLOGRAPHIC FOIL AND OVD PRELAM PRODUCTS:**

<b>Product/Description</b>	<b>Features</b>	<b>Benefits</b>
PL10-FF: Unregistered full face foil	A .010” Prelam with an embedded unregistered holographic foil pattern that is protected under the laminate on the full face of the sheet. Please note that there is NO additional hologram origination fee associated with this product. This product is available in sheet or roll form.	<p>This product allows for dye diffusion thermal transfer imaging when a full-face holographic foil is required due to the holographic foil being sub-surface.</p> <p>Current configurations include:</p> <ul style="list-style-type: none"> <li>• Plain Silver/Plain Silver</li> <li>• Plain Gold/Plain Silver</li> <li>• Silver Rainbow/Silver Rainbow</li> <li>• Gold Rainbow/Silver Rainbow</li> </ul> <p>This sub-assembly is used as the center .010” sheet in the .030” card structure.</p> <p>Please see the Foil Prelam Product information sheet for more information.</p>
PL10-FFR: Registered full face foil Hologram	A .010” Prelam with an embedded registered holographic foil pattern that is protected under the laminate on the full face of the sheet. A combination of images may be used. Please note that there is an additional hologram origination fee associated with this product. This product is available in sheet form only.	<p>This product allows for dye diffusion thermal transfer imaging when a full-face holographic image is required due to the holographic image being sub-surface.</p> <p>A full face holographic image is stepped up to any plastic card manufacturer’s step and repeat.</p> <p>This sub-assembly is used as the center .010” sheet in the .030” card structure.</p> <p>Please see the Foil Prelam Product information sheet for more information.</p>
PL5C-HR/PL5CL-HR: Embedded Registered Spot Hologram	A .005” Prelam with an embedded registered hologram that is protected under the laminate. Please note that there is an additional hologram origination fee associated with this product, unless a stock hologram is chosen. This product is available in sheet or roll form.	<p>This product allows for dye diffusion thermal transfer imaging when a spot hologram is required due to the hologram being sub-surface. Additionally, the hologram is protected so that it will last through the entire 7 or 8 year card life. Surface holograms tend to “wear off” over time.</p>

## PRELAM PRODUCTS

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### **METALIZED, HOLOGRAPHIC FOIL AND OVD PRELAM PRODUCTS CONTINUED:**

<b>Product/Description</b>	<b>Features</b>	<b>Benefits</b>
PL6C-HR/PL6CL-HR: Embedded Registered Spot Hologram	A .006” Prelam with an embedded registered hologram that is protected under the laminate. Please note that there is an additional hologram origination fee associated with this product, unless a stock hologram is chosen. This product is available in sheet or roll form.	This product allows for dye diffusion thermal transfer imaging when a spot hologram is required due to the hologram being sub-surface. Additionally, the hologram is protected so that it will last through the entire 9 or 10 year card life. Surface holograms tend to “wear off” over time.
PL5C-HNR/PL5CL-HNR: Embedded Unregistered Spot Hologram	A .005” Prelam with an embedded unregistered holographic foil pattern that is protected under the laminate. Please note that there is an additional die cost, but NO additional hologram origination fee associated with this product. This product is available in sheet or roll form.	This product allows for dye diffusion thermal transfer imaging when a spot hologram foil pattern is required due to the foil pattern being sub-surface. Additionally, the foil pattern is protected so that it will last through the entire 10-year card life. Surface hot stamped patterns tend to “wear off” over time.
PL6C-HNR/PL6CL-HNR: Embedded Unregistered Spot Hologram	A .006” Prelam with an embedded unregistered holographic foil pattern that is protected under the laminate. Please note that there is an additional die cost, but NO additional hologram origination fee associated with this product. This product is available in sheet or roll form.	This product allows for dye diffusion thermal transfer imaging when a spot hologram foil pattern is required due to the foil pattern being sub-surface. Additionally, the foil pattern is protected so that it will last through the entire 10-year card life. Surface hot stamped patterns tend to “wear off” over time.

## PRELAM PRODUCTS

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### **METALIZED, HOLOGRAPHIC FOIL AND OVD PRELAM PRODUCTS CONTINUED:**

<b>Product/Description</b>	<b>Features</b>	<b>Benefits</b>
PL7C-A/PL7CL-A: Embedded Advantage OVD	A .005” Prelam that includes an embedded Advantage™ Optically Variable Device. Advantage™ is a proprietary, optically variable coating that protects Security ID documents from counterfeiting, alteration and compromise. This product is available in sheet or roll form.	Advantage™ images will delaminate and subsequently destroy the key variable data of the document when tampered with.
PL8C-A/PL8CL-A: Embedded Advantage OVD	A .006” Prelam that includes an embedded Advantage™ Optically Variable Device. Advantage™ is a proprietary, optically variable coating that protects Security ID documents from counterfeiting, alteration and compromise. This product is available in sheet or roll form.	Advantage™ images will delaminate and subsequently destroy the key variable data of the document when tampered with.
PL5C-F/PL5CL-F: Embedded foil stripe, 3/8” or 1/2” wide	A .005” Prelam with an embedded registered holographic foil stripe that is protected under the laminate. Please note that there is an additional hologram origination fee associated with this product, unless a stock item is chosen. This product is available in sheet or roll form.	This product allows for dye diffusion thermal transfer imaging when a unique spot hologram is required due to the holographic stripe being sub-surface. Holographic stripes are fairly unique, as most manufacturers choose to hot stamp a spot hologram, or have a full-face holographic foil background.

## PRELAM PRODUCTS

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### ***METALIZED, HOLOGRAPHIC FOIL AND OVD PRELAM PRODUCTS CONTINUED:***

<b>Product/Description</b>	<b>Features</b>	<b>Benefits</b>
PL6C-F/PL6CL-F: Embedded foil stripe, 3/8” or 1/2” wide	A .006” Prelam with an embedded registered holographic foil stripe that is protected under the laminate. Please note that there is an additional hologram origination fee associated with this product, unless a stock item is chosen. This product is available in sheet or roll form.	This product allows for dye diffusion thermal transfer imaging when a unique spot hologram is required due to the holographic stripe being sub-surface. Holographic stripes are fairly unique, as most manufacturers choose to hot stamp a spot hologram, or have a full-face holographic foil background.