

SigmaKoat

About 3 Sigma

Established in 1980, 3 Sigma is a fast-growing innovator of pressure sensitive adhesive coated products. 3 Sigma uses its solvent, emulsion and hot melt technology expertise to produce specialty or complex adhesive constructions at our facility in Troy, Ohio. Our flexibility, creativity, market experience and unique product commercialization approach enables us to create higher margin, innovative products for our customers, helping them to capture market opportunities, reduce waste and production costs, and increase output.



A Proven Approach

Research and Development of custom adhesives and top coats for highly specialized pressure sensitive products is our specialty. Our solvent, emulsion and hot melt chemistry and manufacturing capabilities are utilized every day to create unique, value-added products for our customers that add directly to their bottom line. 3 Sigma's research and development personnel have worked in large multi-national corporations and follow a unique, collaborative approach when working with customers and strategic partners, ensuring alignment and a superior customer experience.

SigmaKoat™ 3 Sigma's New Product Line

At 3 Sigma we are known for providing custom adhesive and top coated constructions for the pressure sensitive industry. Since 1980 our innovative capabilities and products have helped companies create new, higher margin products for their customers while reducing waste and total applied costs. Building upon this legacy we are proud to announce our new SigmaKoat[™] family of products.

SigmaKoat HT[™] (High Temperature Thermal

Transfer) Extreme and high temperature thermal transfer label stocks designed to withstand high heat processes and applications while maintaining superior print quality compared to competitive offerings. Polyimide materials combined with specially formulated top coats and adhesives provide a world class product.

Typical Applications:

- PCB ID & tracking (lead free processes)
- Automotive under hood
- Outdoor power equipment
- Metal processing (under 300°C)
- Medical sterilization/autoclaving

Features:

- UL certified
- Cost effective and cost competitive
- Can be used for top and bottom side labeling on PCB's
- Wide range of thermal transfer ribbon capability
- Superior abrasion and harsh chemical resistance
- Ability to withstand 572°F (300°C) for brief periods

Benefits:

Superior thermal transfer print quality

 Allows printing with UV and water-based flexo, screen, or letterpress inks

Efficient converting, reduced manufacturing scrap & cost

Innovation + Thought Leadership + High Durability & High Temperature Materials =

Revenue & Profit for You



3 Sigma DN	Film Type	Film Thicknoss	Toncost	Adhosivo	Liner	Maximum Temp.
S Sigilia Pi	гип туре	FIIM THICKNESS	торсоас	Auffestve	Liller	(brief exp)
2 mil Gloss Wht PI SK-HT/ SP63B /	White		Gloss		55# White	300ºC
55# WG *	Polyimide	2 mil	PC130	SP63B	Glassine	(572ºF)
2 mil Matte Wht PI SK-HT/ SP63B /	White		Matte		55# White	300ºC
55# WG *	Polyimide	2 mil	PC120	SP63B	Glassine	(572ºF)
1 mil Gloss Wht Pl SK-HT/ SP63B /	White		Gloss		55# White	300ºC
55# WG	Polyimide	1 mil	PC130	SP63B	Glassine	(572ºF)

* Denotes stocked item at 3 Sigma





Master Web Width	Roll Length	MSI/Roll	<u>Minimum Order</u>	Lead Time
46.5"	3,280 ft	1830	915 msi	2-3 Days

Note: If these requirements do not meet your needs, please call customer service to discuss.



"We were able to capture new business due to the unique capabilities that 3 Sigma provides"

- From 2008 ISO Customer Survey

Signakoat HTM High Temperature Thermal Transfer

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Technical Specification: SigmaKoat HT[™] - 2 mil Gloss White Polyimide /SP63B/55#WG

Description: Gloss white polyimide thermal transfer label stock. Materials have been designed for high heat applications including PCB manufacturing/tracking, automotive, outdoor power equipment, metal processing or medical sterilization up to 300°C (572°F). It is suited for variable or fixed labeling in harsh environments and will withstand wave solder, solvent cleaning and reflow processes. The gloss topcoat offers extreme resistance to chemicals, smearing and abrasion while providing for high quality thermal or press printing.

Construction

Component	Description	Thickness
Film	Polyimide	2.0 mil
Top coat	Gloss	.63 mil
Adhesive	Solvent acrylic	1.6 mil
Liner	White glassine	2.8 mil

Ribbon Compatibility

Armor	Ricoh	Sony	Zebra	Electric Imaging Co
	B110-A			
AXR8	D110-A	TR6075	5095	T96
	B110-CR			

Due to process variations, 3 Sigma recommends testing ribbon / label combination, prior to use in high temperature/PCB assembly lines

Material handling and certifications

•Label Application: Optimal results are achieved with surface temperature being close to room temperature and applied to a clean, dry surface.

•**Storage:** Labels and raw materials should be kept in plastic bags and stored at room temperature (70 - 75°F and 50% relative humidity). Shelf life under recommended conditions should yield specified performance criteria for up to 18 months.

•UL Approved: UL Test Std. UL969, Product Cat: PGJ12; Matls. File No. MH47340





Adhesive Information – SP63B

- High performance permanent acrylic
- •For use in applications up to 300°C
- •Temperature range -40 to +300 degree C
- •Typical/Average adhesion levels 3.4 to 4.5 lbs/in



Std Atm:	96 Hours at standard atmosphere
Humidity:	96 Hours at 104° F and 95% Relative Humidity
Low Temp:	96 Hours at -40° F
High Temp:	96 Hours at 167° F (PP, ABS, PVC) and 250° F (PC. AL, GS)
Water Imm:	96 Hours room temperature water immersion



Technical Specification: SigmaKoat HT[™] - 2 mil Matte White Polyimide /SP63B/55#WG

Description: Matte white polyimide thermal transfer label stock. Materials have been designed for high heat applications including PCB manufacturing/tracking, automotive, outdoor power equipment, metal processing or medical sterilization up to 300°C (572°F). It is suited for variable or fixed labeling in harsh environments and will withstand wave solder, solvent cleaning and reflow processes. The gloss topcoat offers extreme resistance to chemicals, smearing and abrasion while providing for high quality thermal or press printing.

Construction

Component	Description	Thickness
Film	Polyimide	2 mil
Top coat	Matte	.63 mil
Adhesive	Solvent acrylic	1.6 mil
Liner	White glassine	2.8 mil

Ribbon Compatibility

Armor	Ricoh	Sony	Zebra	Electric Imaging Co
	B110-A			
AXR8	D110-A	TR6075	5095	T96
	B110-CR			

Due to process variations, 3 Sigma recommends testing ribbon / label combination, prior to use in high temperature/PCB assembly lines

Material handling and certifications

•Label Application: Optimal results are achieved with surface temperature being close to room temperature and applied to a clean, dry surface.

•**Storage:** Labels and raw materials should be kept in plastic bags and stored at room temperature (70 - 75°F and 50% relative humidity). Shelf life under recommended conditions should yield specified performance criteria for up to 18 months.

•UL Approved: UL Test Std. UL969, Product Cat: PGJ12; Matls. File No. MH47340





Adhesive Information – SP63B

- High performance permanent acrylic
- •For use in applications up to 300°C
- •Temperature range -40 to +300 degree C
- Typical/Average adhesion levels 3.4 to 4.5 lbs/in



Std Atm:	96 Hours at standard atmosphere
Humidity:	96 Hours at 104° F and 95% Relative Humidity
Low Temp:	96 Hours at -40° F
High Temp:	96 Hours at 167° F (PP, ABS, PVC) and 250° F (PC. AL, GS)
Water Imm:	96 Hours room temperature water immersion



Technical Specification: SigmaKoat HT - 1 mil Gloss White Polyimide /SP63B/55#WG

Description: Gloss white polyimide thermal transfer label stock. Materials have been designed for high heat applications including PCB manufacturing/tracking, automotive, outdoor power equipment, metal processing or medical sterilization up to 300°C (572°F). It is suited for variable or fixed labeling in harsh environments and will withstand wave solder, solvent cleaning and reflow processes. The gloss topcoat offers extreme resistance to chemicals, smearing and abrasion while providing for high quality thermal or press printing.

Construction

Component	Description	Thickness
Film	Polyimide	1 mil
Top coat	Gloss	.63 mil
Adhesive	Solvent acrylic	1.6 mil
Liner	White glassine	2.8 mil

Ribbon Compatibility

Armor	Ricoh	Sony	Zebra	Electric Imaging Co
AXR8	D110-A	TR6075	5095	T96
	B110-CR			

Due to process variations, 3 Sigma recommends testing ribbon / label combination, prior to use in high temperature/PCB assembly lines.

Material handling and certifications

•Label Application: Optimal results are achieved with surface temperature being close to room temperature and applied to a clean, dry surface.

•Storage: Labels and raw materials should be kept in plastic bags and stored at room temperature (70 - 75°F and 50% relative humidity). Shelf life under recommended conditions should yield specified performance criteria for up to 18 months.



•UL Approved: UL Test Std. UL969, Product Cat: PG; Matls. File No. MH47340

Adhesive Information – SP63B

- High performance permanent acrylic
- •For use in applications up to 300°C
- •Temperature range -40 to +300 degree C
- Typical/Average adhesion levels 3.4 to 4.5 lbs/in



Std Atm:	96 Hours at standard atmosphere
Humidity:	96 Hours at 104° F and 95% Relative Humidity
Low Temp:	96 Hours at -40° F
High Temp:	96 Hours at 167° F (PP, ABS, PVC) and 250° F (PC. AL, GS)
Water Imm:	96 Hours room temperature water immersion



SigmaKoat ED™ (Extreme Durability Thermal Transfer)

Polyester film stock treated with a proprietary chemistry unsurpassed in competitive offerings. The matte top coat is uniquely formulated to provide extreme image durability, outstanding abrasion and harsh chemical resistance.

Typical Applications:

- Drum labeling
- Automotive
- Electronics
- Medical & Pharmaceutical
- Warehousing

Features:

- UL & cUL Certified
 Short term exposure between 230°C and 300°C
 Long term exposure up to 120°C (248°F)
 High resistance to solvents & chemicals (wiping or immersion)
 Scratch and abrasion resistance
- Functions with a wide range of transfer ribbons

Benefits:

- Long term durability and product life
- Cost effective and cost competitive
- Ability to use in a wide range of operating environments
- Flexible printing methods: thermal transfer, flexo, offset

Sigmakoat EDTM Extreme Durability Thermal Transfer







3 Sigma PN	Film Type	Film Thickness	Topcoat	Adhesive	Liner
			Ultra-Durable		55# White
2 mil Matte Wht PET SK-ED / PE30 / 55#WG *	White Polyester	2 mil	Matte	PE30	Glassine
			Ultra-Durable		55# White
2 mil Matte Slvr PET SK-ED / PE30 / 55#WG *	Silver Polyester	2 mil	Matte	PE30	Glassine

* Denotes stocked item at 3 Sigma



Chemical Hand Rub (30seconds): Ethyl Acetate

Master Web Width	Roll Length	MSI/Roll	<u>Minimum Order</u>	Lead Time
46.5"	3,280 ft	1830	1830 msi	2-3 Days

Note: If these requirements do not meet your needs, please call customer service to discuss.





"3 Sigma's products are a great value. We've looked at changing, but 3 Sigma offered the best product with the best lead time."

- Jennifer Duckworth, WorkFlowOne



Technical Specification: SigmaKoat ED[™] – 2 mil Matte White Polyester /PE30/55#WG

Description: Matte white polyester thermal transfer label stock. Materials have been designed for extreme durability and abrasion resistance and provides excellent thermal print resolution using a wide variety of thermal ribbons. It is suited for variable or fixed labeling in relatively harsh environments. The high tack adhesive utilized in this construction provides good peel and shear characteristics suited for a wide range of application substrate surfaces. Materials are suitable for printing with conventional inks (Water based & UV flexo, letterpress and screen).

Construction

Component	Description	Thickness
Film	Polyester	2.0 mil
Top coat	Matte	.63 mil
Adhesive	High Perf Perm - LSE	1 mil
Liner	White glassine	2.8 mil

Ribbon Compatibility

Armor	Ricoh	Sony	Zebra	Dynic	Dia Nippon	Coding Products
AXR7+	B110-A	TR4070	3100	HL35	R510	TTR5940
AXR8	B110-C	TR4080	3200	HL45	R511-X	TTR5951
	D110-A	TR5080	4100			TTR5994
	B110-CR	TR6075	5095			TTR7993
			5100			
			5555			
		1				

Due to process variations, 3 Sigma recommends testing ribbon / label combination prior to use.

Material handling and certifications

•Label Application: Optimal results are achieved with surface temperature being close to room temperature and applied to a clean, dry surface.

•Storage: Labels and raw materials should be kept in plastic bags and stored at room temperature (70 - 75°F and 50% relative humidity). Shelf life under recommended conditions should yield specified performance criteria for up to 18 months.



•UL Approved: UL Test Std. UL969, Product Cat: PGJ12; Matls. File No. MH47340



Adhesive Information – PE30

- High performance permanent
 Works well on low surface energy substrates
 For use in applications up to 194°F (90°C)
 Temperature range -40° F/C to +194°F (90° C)
 Typical/Average adhesion levels 3.4 to 4.5 lbs/in



Std Atm:	96 Hours at standard atmosphere
Humidity:	96 Hours at 104° F and 95% Relative Humidity
Low Temp:	96 Hours at -40° F
High Temp:	96 Hours at 167° F (PP, ABS, PVC) and 250° F (PC. AL, GS)
Water Imm:	96 Hours room temperature water immersion



Technical Specification: SigmaKoat ED[™] – 2 mil Matte Silver Polyester /PE30/55#WG

Description: Matte Silver polyester thermal transfer label stock. Materials have been designed for extreme durability and abrasion resistance and provide excellent thermal print resolution using a wide variety of thermal ribbons. It is suited for variable or fixed labeling in relatively harsh environments. The high tack adhesive utilized in this construction provides good peel and shear characteristics suited for a wide range of application substrate surfaces. Materials are suitable for printing with conventional inks (Water based & UV flexo, letterpress and screen).

Construction

Component	Description	Thickness
Film	Silver Polyester	2.0 mil
Top coat	Matte	.63 mil
Adhesive	High Perf Perm - LSE	1 mil
Liner	White glassine	2.8 mil

Ribbon Compatibility

Armor	Ricoh	Sony	Zebra	Dynic	Dia Nippon	Coding Products
AXR7+	B110-A	TR4070	3100	HL35	R510	TTR5940
AXR8	B110-C	TR4080	3200	HL45	R511-X	TTR5951
	D110-A	TR5080	4100			TTR5994
	B110-CR	TR6075	5095			TTR7993
	i i		5100			
			5555			

Due to process variations, 3 Sigma recommends testing ribbon / label combination prior to use.

Material handling and certifications

•Label Application: Optimal results are achieved with surface temperature being close to room temperature and applied to a clean, dry surface.

•**Storage:** Labels and raw materials should be kept in plastic bags and stored at room temperature (70 - 75°F and 50% relative humidity). Shelf life under recommended conditions should yield specified performance criteria for up to 18 months.

•UL Approved: UL Test Std. UL969, Product Cat: PGJ12; Matls. File No. MH47340



Adhesive Information – PE30

- High performance permanent
- Works well on low surface energy substrates
- For use in applications up to 194°F (90°C)
- •Temperature range -40° F/C to +194°F (90° C)
- •Typical/Average adhesion levels 3.4 to 4.5 lbs/in



Std Atm:	96 Hours at standard atmosphere
Humidity:	96 Hours at 104° F and 95% Relative Humidity
Low Temp:	96 Hours at -40° F
High Temp:	96 Hours at 167° F (PP, ABS, PVC) and 250° F (PC. AL, GS)
Water Imm:	96 Hours room temperature water immersion

Brand Security **Tamper** Requires....

SigmaKoat TE^m (Tamper Evident Thermal Transfer) SigmaKoat TE^m is a line of destructible films with both covert and overt features for security label applications. The custom formulated top coat improves print quality and durability. With multiple constructions available, the product provides high levels of adhesion to many surfaces, allowing the facestock to easily delaminate to show tamper evidence.



Typical Applications:

- Appliances
- Automotive
- Electronics
- Medical & Pharmaceutical
- Warehousing
- Software

Features:

- Excellent thermal receptivity with specified ribbons
- Highly versatile top coating
- Easy to die cut and matrix strip
- Hand and machine auto dispensable
- Temp range of -40 F (-40C) to 176 F (80C)

Benefits:

- Superior thermal transfer print quality
- Allows printing with UV and water-based flexo, screen, or letterpress inks
- Efficient converting, reduced mfg scrap & cost







	Film	Film			4
3 Sigma PN	Туре	Thickness	Topcoat	Adhesive	Liner
2.8 mil Matte White Destruct PP SK-TE /	Destruct		Durable	а н та	55# White
A601/55#WG *	White PP	2.8 mil	Matte	A601	Glassine
2.8 mil Matte White Destruct PP SK-TE /	Destruct		Durable		55# White
PE30/55#WG *	White PP	2.8 mil	Matte	PE30	Glassine
6.0 mil Matte White Destruct PP SK-TE	Destruct		Durable		55# White
/PE33/55#WG	White PP	6.0 mil	Matte	PE33	Glassine

* Denotes stock item at 3 Sigma





<u>Master Web Width</u>	Roll Length	MSI/Roll	Minimum Order	<u>Lead Time</u>
46.5″	3,280 ft	1830	1830 msi	2-3 Days

Note: If these requirements do not meet your needs, please call customer service to discuss.



"Six thousand containers a day are shipped to the U.S. from Hong Kong and only 2% are physically inspected."

> - U.S. Bureau of Customs and Border Protection

Sigma Koat TETM Tamper Evident Thermal Transfer

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Technical Specification: SigmaKoat TE[™] – 2.8 mil Matte White Destruct Polypropylene /A601/55#WG

Description: Matte white polypropylene thermal transfer label stock. Materials have been designed for durability and excellent thermal print resolution while providing tamper evidence features. It is suited for variable or fixed labeling in relatively harsh environments. The high tack adhesive utilized in this construction ensures that the face material will shred when the attempt is made to remove the label. This material is suited for a wide range of application substrate surfaces.

Construction

Component	Description	Thickness
Film	Polypropylene	2.8 mil
Top coat	Matte	.63 mil
Adhesive	High Tack Perm	1 mil
Liner	White glassine	2.8 mil

Ribbon Compatibility

Armor	Ricoh	Sony	Zebra	Dynic	Dia Nippon	Coding Products
AXR7+	B110-A	TR4070	3100	HL35	R510	TTR5940
AXR8	B110-C	TR4080	3200	HL45	R511-X	TTR5951
	D110-A	TR5080	4100		9	TTR5994
	B110-CR	TR6075	5095	e	Č.	
			5100		-	
			5555			
	*					

Due to process variations, 3 Sigma recommends testing ribbon / label combination prior to use.

Material handling and certifications

•Label Application: Optimal results are achieved with surface temperature being close to room temperature and applied to a clean, dry surface.

•**Storage:** Labels and raw materials should be kept in plastic bags and stored at room temperature (70 - 75°F and 50% relative humidity). Shelf life under recommended conditions should yield specified performance criteria for up to 18 months.



Adhesive Information – A601

- High tack permanent
- •For use in applications up to 175°F (80°C)
- •Temperature range -40° F/C to +175°F (80° C)
- •Typical/Average adhesion levels 3.4 to 4.5 lbs/in



Std Atm:	96 Hours at standard atmosphere
Humidity:	96 Hours at 104° F and 95% Relative Humidity
Low Temp:	96 Hours at -40° F
High Temp:	96 Hours at 167° F (PP, ABS, PVC) and 250° F (PC. AL, GS)
Water Imm:	96 Hours room temperature water immersion



Technical Specification: SigmaKoat TE[™] – 2.8 mil Matte White Destruct Polypropylene /PE30/55#WG

Description: Matte white polypropylene thermal transfer label stock. Materials have been designed for durability and excellent thermal print resolution while providing tamper evidence features. It is suited for variable or fixed labeling in relatively harsh environments. The high tack adhesive utilized in this construction ensures that the face material will shred when the attempt is made to remove the label. This material is suited for a wide range of application substrate surfaces.

Construction

Component	Description	Thickness		
Film	Polypropylene	2.8 mil		
Top coat	Matte	.63 mil		
Adhesive	High Perf Perm - LSE	1 mil		
Liner	White glassine	2.8 mil		

Ribbon Compatibility

Armor	Ricoh	Sony	Zebra	Dynic	Dia Nippon	Coding Products
AXR7+	B110-A	TR4070	3100	HL35	R510	TTR5940
AXR8	B110-C	TR4080	3200	HL45	R511-X	TTR5951
	D110-A	TR5080	4100			TTR5994
	B110-CR	TR6075	5095			
			5100			
			5555			

Due to process variations, 3 Sigma recommends testing ribbon / label combination prior to use.

Material handling and certifications

•Label Application: Optimal results are achieved with surface temperature being close to room temperature and applied to a clean, dry surface.

•**Storage:** Labels and raw materials should be kept in plastic bags and stored at room temperature (70 - 75°F and 50% relative humidity). Shelf life under recommended conditions should yield specified performance criteria for up to 18 months.

•UL Approved: UL Test Std. UL969, Product Cat: PGGU2; Matls. File No. MH47340





Adhesive Information – PE30

- High performance permanent
- Works well on low surface energy substrates
- •For use in applications up to 194°F (90°C)
- •Temperature range -40° F/C to +194°F (90° C)
- •Typical/Average adhesion levels 3.4 to 4.5 lbs/in



Std Atm:	96 Hours at standard atmosphere
Humidity:	96 Hours at 104° F and 95% Relative Humidity
Low Temp:	96 Hours at -40° F
High Temp:	96 Hours at 167° F (PP, ABS, PVC) and 250° F (PC. AL, GS)
Water Imm:	96 Hours room temperature water immersion



Technical Specification: SigmaKoat TE[™] – 6 mil Matte White Destruct Polystyrene /PE33/55#WG

Description: Matte white polypropylene thermal transfer label stock. Materials have been designed for durability and excellent thermal print resolution while providing tamper evidence features. It is suited for variable or fixed labeling in relatively harsh environments. The high tack adhesive utilized in this construction ensures that the face material will shred when the attempt is made to remove the label. This material is suited for a wide range of application substrate surfaces.

Construction

Component	Description	Thickness		
Film	Polystyrene	6 mil		
Top coat	Matte	.63 mil		
Adhesive	High Perf Perm	1 mil		
Liner	White glassine	2.8 mil		

Ribbon Compatibility

Armor	Ricoh	Sony	Zebra	Dynic	Dia Nippon	Coding Products
AXR7+	B110-A	TR4070	3100	HL35	R510	TTR5940
AXR8	B110-C	TR4080	3200	HL45	R511-X	TTR5951
	D110-A	TR5080	4100			TTR5994
	B110-CR	TR6075	5095			
			5100			
			5555			

Due to process variations, 3 Sigma recommends testing ribbon / label combination prior to use.

Material handling and certifications

•Label Application: Optimal results are achieved with surface temperature being close to room temperature and applied to a clean, dry surface.

•**Storage:** Labels and raw materials should be kept in plastic bags and stored at room temperature (70 - 75°F and 50% relative humidity). Shelf life under recommended conditions should yield specified performance criteria for up to 18 months.



Adhesive Information – PE33

Note: Performance Specifications for PE33 utilized with Tamper Evident (destructible) facestocks have not been developed due to the nature of the product.

Should you require additional information requiring the adhesive, please contact 3 Sigma's technical department.



Additional Specialty Thermal Transfer Products Available

3 Sigma PN Type Thickness Topcoat Adhesive Liner Approved High Temperature Products		Film	Film				UL
High Temperature Products Image: Constraint of the second sec	3 Sigma PN	Туре	Thickness	Topcoat	Adhesive	Liner	Approved
2 mil Gloss Wht PEN SK-HT / SP63 / 55#WG White PEN 2 mil Durable SP63 Glassine No 2 mil Matte Wht HSF SK-HT / SP63 / 55#WG Film (PET) 2 mil Matte SP63 Glassine No 2 mil Matte Wht HSF SK-HT / SP63 / 55#WG Film (PET) 2 mil Matte SP63 Glassine No 2 mil Gloss Wht HSF SK-HT / SP63 / 55#WG Film (PET) 2 mil Matte SP63 Glassine No 2 mil Gloss Wht HSF SK-HT / SP63 / 55#WG Film (PET) 2 mil Gloss SP63 Glassine No 2 mil Matte Wht PST SK-ED / SP61 / 55#WG White PET 2 mil Matte SP61 Glassine No 2 mil Gloss Wht PET SK-ED / SP61 / 55#WG White PET 2 mil Matte SP61 Glassine No 2 mil Gloss Wht PET SK-ED / SP61 / 55#WG White PET 2 mil Gloss SP61 Glassine No 2 mil Gloss Wht PET SK-ED / SP61 / 55#WG White PET 2 mil Gloss SP61 Glassine No 2 mil Gloss Wht PET SK-ED / SP61 / 55#WG White PET 2 mil Gloss SP61B Glassine No <td>High Temperature Products</td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td>	High Temperature Products		•				
2 mil Gloss Wht PEN SK-HT / SP63 / 55#WG White PEN 2 mil Gloss SP63 Glassine No 2 mil Gloss Wht PEN SK-HT / SP63 / 55#WG Film (PET) 2 mil Matte SP63 Glassine No 2 mil Matte Wht HSF SK-HT / SP63 / 55#WG Film (PET) 2 mil Matte SP63 Glassine No 2 mil Gloss Wht HSF SK-HT / SP63 / 55#WG Film (PET) 2 mil Gloss SP63 Glassine No 2 mil Gloss Wht HSF SK-HT / SP63 / 55#WG Film (PET) 2 mil Gloss SP63 Glassine No 2 mil Gloss Wht HSF SK-HT / SP63 / 55#WG Film (PET) 2 mil Gloss SP61 Glassine No 2 mil Gloss Wht HSF SK-HT / SP63 / 55#WG White PET 2 mil Matte SP61 Glassine No 2 mil Matte Wht PET SK-ED / SP61 / 55#WG White PET 2 mil Matte SP61 Glassine No 2 mil Gloss Wht PET SK-ED / SP61B / 55#WG White PET 2 mil Gloss SP61 Glassine No 2 mil Gloss Wht PET SK-ED / SP61B / 55#WG White PET 2 mil Gloss SP61 Glassine No 2 mil Gloss Wht PET SK-ED / SP61B / 55#WG White PET 2 mil Matte PE30 Glassine No <td></td> <td></td> <td></td> <td></td> <td></td> <td>55#</td> <td>-</td>						55#	-
2 mil Gloss Wht PEN SK-HT / SP63 / 55#WG White PEN 2 mil Gloss SP63 Glassine No 4 Heat Stabilized Durable White Sef4 White 2 mil Matte Wht HSF SK-HT / SP63 / 55#WG Film (PET) 2 mil Matte SP63 Glassine No 2 mil Gloss Wht HSF SK-HT / SP63 / 55#WG Film (PET) 2 mil Gloss SP63 Glassine No 2 mil Gloss Wht HSF SK-HT / SP63B / 55#WG Film (PET) 2 mil Gloss SP63 Glassine No 2 mil Gloss Wht HSF SK-HT / SP63B / 55#WG Film (PET) 2 mil Gloss SP61 Glassine No 2 mil Matte Wht PET SK-ED / SP61 / 55#WG White PET 2 mil Matte SP61B Glassine No 2 mil Gloss Wht PET SK-ED / SP61B / 55#WG White PET 2 mil Matte SP61B Glassine No S5# 2 mil Gloss Wht PET SK-ED / SP61B / 55#WG White PET 2 mil Gloss SP61B Glassine No S5# 2 mil Gloss Wht PET SK-ED / SP61B / 55#WG White PET 2 mil Semi- Semi- Semi- Sef4				Durable		White	
Heat Stabilized Durable 55# 2 mil Matte Wht HSF SK-HT / SP63 / 55#WG Film (PET) 2 mil Matte SP63 Glassine No 2 mil Gloss Wht HSF SK-HT / SP63 / 55#WG Film (PET) 2 mil Gloss SP63 Glassine No 2 mil Gloss Wht HSF SK-HT / SP63 / 55#WG Film (PET) 2 mil Gloss SP63 Glassine No Durable Polyester Products	2 mil Gloss Wht PEN SK-HT / SP63 / 55#WG	White PEN	2 mil	Gloss	SP63	Glassine	No
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2 mil Semi-Matte Slvr PET SK-HD / PE30 / 55#WG Silver PET 2 mil Matte PE30 Glassine 2 mil Gloss Wht PET SK-HD / PE30 / 55#WG White PET 2 mil Gloss PE30 Glassine 2 mil Matte Wht PET SK-HD / PE30 / 40#WG White PET 2 mil Matte PE30 Glassine 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Silver PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Silver PE3	55#WG		2 mii	Matte	PE30	Glassine	
2 mil Semi-Matte Sivr PET SK-HD / PE30 / Silver PET 2 mil Matte PE30 Glassine C TN us 55#WG Silver PET 2 mil Matte PE30 Glassine C TN us 2 mil Gloss Wht PET SK-HD / PE30 / 55#WG White PET 2 mil Gloss PE30 Glassine C TN us 2 mil Gloss Wht PET SK-HD / PE30 / 55#WG White PET 2 mil Gloss PE30 Glassine C TN us 2 mil Matte Wht PET SK-HD / PE30 / 40#WG White PET 2 mil Matte PE30 Glassine Matte 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine Matte 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine	2 mil Sami Matta Shu DET SK UD / DE20 /			Comi		White	1
Shiver PET 2 min Watte PESO Glassine 2 mil Gloss Wht PET SK-HD / PE30 / 55#WG White PET 2 mil Gloss PE30 Glassine c Nus 2 mil Matte Wht PET SK-HD / PE30 / 40#WG White PET 2 mil Matte PE30 Glassine 40# 2 mil Matte Wht PET SK-HD / PE30 / 40#WG White PET 2 mil Matte PE30 Glassine 40# 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine 40# 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine Matte			2 mil	Semi-	DE20	Clessine	C Tha us
2 mil Gloss Wht PET SK-HD / PE30 / 55#WG White PET 2 mil Gloss PE30 Glassine 2 mil Matte Wht PET SK-HD / PE30 / 40#WG White PET 2 mil Matte PE30 Glassine 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine	55#₩G	SIVERPEI	2 mm	matte	FEJU	Giassine	
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2 mil Oloss White PET SK-HD / PE30 / 40#WG White PET 2 mil Durable Matte 40# White Glassine 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine 2 mil Matte Slvr PET SK-HD / PE30 / 40#WG Silver PET 2 mil Matte PE30 Glassine	2 mil Gloss Wht PET SK-HD / PE30 / 55#WG	White PFT	2 mil	Gloss	PE30	Glassine	C The US
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Durable 40# White FN	2 mil Matte Slvr PET SK-HD / PE30 / 40#WG	Silver PET	2 mil	Matte	PE30	Glassine	
Durable White FU						40#	
				Durable		White	
2 mil Matte Wht PET SK-HD / A601 / 40#WG White PET 2 mil Matte A601 Glassine	2 mil Matte Wht PET SK-HD / A601 / 40#WG	White PET	2 mil	Matte	A601	Glassine	
40#						40#	
Durable White White				Durable		White	
2 mil Matte Slvr PET SK-HD / A601 / 40#WG Silver PET 2 mil Matte A601 Glassine	2 mil Matte Slvr PET SK-HD / A601 / 40#WG	Silver PET	2 mil	Matte	A601	Glassine	
Security/Tamper Evident	Security/Tamper Evident						
55#						55#	
2.8 mil Matte White Destruct PP SK-TE / Destruct Durable White White	2.8 mil Matte White Destruct PP SK-TE /	Destruct		Durable	White	White	
PE31W/55#WG * White PP 2.8mil Matte PE31 Glassine No	PE31W/55#WG *	White PP	2.8 mil	Matte	PE31	Glassine	No



About 3 Sigma

Established in 1980, 3 Sigma is a fast-growing innovator of pressure sensitive adhesive coated products. Our solvent, emulsion, and hot melt technology expertise inside our 85,000 sq ft plant in Ohio produces specialty or complex coating and adhesive constructions.

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