STRANCO

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THERMAL TRANSFER LABEL MATERIAL LIST

Number	Polyester Materials	Mil	Color	Finish	Description	Service Temperature	Adhesive
S-371	Polyester	2 mil	White	Gloss	Top-coated thermal transfer printable with resin and wax/resin ribbons. Acrylic adhesive bonds well to low- and high- surface energy plastics, metal, powder coated paint, paint, ceramic, paper/fiber, glass and fiberglass. UL recognized, CSA Accepted	-40° F to 302° F (-40° C to 150° C)	Permanent Acrylic
S-372	Polyester "aggressive adhesive"	2 Mil	White	Gloss	Top-coated thermal transer printable with resin and wax/resin ribbons. Aggressive acrylic adhesive provides high initial tack, high shear, and high ultimate bond to low-surface energy plastics and painted metal, and rough textured surfaces. UL recognized, CSA Accepted	-40° F to 302° F (-40° C to 150° C)	Permanent Acrylic
S-375	Polyester	2 mil	White	Matte	Top-coated thermal transfer printable with resin and wax/resin ribbons. Acrylic adhesive bonds well to low- and high- surface energy plastics, metal, powder coated paint, paint, ceramic, paper/fiber, glass and fiberglass. UL recognized	-40° F to 302° F (-40° C to 150° C)	Permanent Acrylic
S-377	Polyester	2 mil	White	Gloss	Top-coated thermal transfer printable with resin and wax/resin ribbons. Acrylic adhesive bonds well to low surface energy plastics, bare, coated or painted metals, inlcuding power coat and enamal paints. UL recognized	-40° F to 302° F (-40° C to 150° C)	Permanent Acrylic
S-379	Polyester / Piggy back	2 / 2	White/Clear	Gloss	Piggy Back: 2 mil white poyester label with companion 2 mil clear polyester over laminate label.	-40° F to 302° F (-40° C to 150° C)	Permanent Acrylic
S-388	Polyester	2 mil	Silver	Matte	Matte top-coated thermal transfer printable with wax, wax/resin, and resin ribbons. Acrylic adhesive bonds well to low- and high-surface energy plastics, painted metal, powder coated paint, polycarbonate and fiberglass. UL recognized	-40° F to 302° F (-40° C to 150° C)	Permanent Acrylic
S-389	Polyester	2 mil	Silver	Gloss	Top-coated thermal transfer printable with resin and wax/resin ribbons. Aggressive acrylic adhesive, has high shear and high peal and resists cold f and oozing. Bonds well to low- and high-surface energy plastics, painted metal, powder coated paint, pollycarbonate and fiberglass. UL recognized, CSA Accepted	-40° F to 302° F (-40° C to 150° C)	Permanent Acrylic
S-391	Polyester "tamper evident" "Void" Footprint	2 mil	" void" Silver	Matte	Matte top-coated thermal transfer printable with resin and wax/resin ribbons. After 24 hours of dwell time, this material shows tampering when removal is attempted by leaving a "void" footprint on the application surface. Tamper evident feature is eliminated when exposed to +104° F temperature. UL recognized	-40° F to 302° F (-40° C to 150° C)	Permanent Acrylic
S-393	Polyester	2 mil	Silver	Gloss	--- used for Barcode Integrators ------ no stock 10/7/19		
S-395	Polyester	5 mil	Silver	Matte	----- used for Lincoln Sales -------- Not purchased since FY 2015 (TL304)		
S-399	Polyester	2 mil	Clear	Gloss	Top-coated thermal transfer printable with resin and wax/resin ribbons. Acrylic adhesive provides high initial tack to most medium and high surface energy substrates UL recognized	-40° F to 302° F (-40° C to 150° C)	Permanent Acrylic

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Number	Polyimide Materials	Mil	Color	Finish	Description	Temperature Rating	Adhesive
S-418	Polyimide (Better)	1 mil	White	Matte	Top-coated thermal transfer printable specifically designed for high temperature lead-free solder applications and is designed to withstand surface mount board processes on either the top or bottom side of the board. It can also be used on the top side of the board in mixed processes, and is recommended for the bottom side which is directly exposed to the wave solder environment. Halogen free; REACH and RoHS compliant. UL recognized.	572° F (90 sec) (300° C (90 sec) 500° F (5 mins) (260° C (5 mins)	Permanent Acrylic
S-428	Polyimide (Better)	1 mil	White	Gloss	Top-coated thermal transfer printable specifically designed for high temperature lead-free solder applications and is designed to withstand surface mount board processes on either the top or bottom side of the board. It can also be used on the top side of the board in mixed processes, and is recommended for the bottom side which is directly exposed to the wave solder environment. Halogen free; REACH and RoHS compliant. UL recognized	572° F (90 sec) (300° C (90 sec) 500° F (5 mins) (260° C (5 mins)	Permanent Acrylic
S-454	Polyimide (Better)	1 mil	White	Gloss	Top-coated thermal transfer printable specifically designed for high temperature lead-free solder applications and is designed to withstand surface mount board processes, on either the top or bottom side of the board, as well as mixed processes on the top side, and is recommended for the bottom side which is directly exposed to the wave solder environment. Halogen free; REACH and RoHS compliant. UL recognized	572° F (90 sec) (300° C (90 sec) 500° F (5 mins) (260° C (5 mins)	Permanent Acrylic
S-419	Polyimide (Better)	2 mil	White	Matte	Top-coated thermal transfer printable specifically designed for high temperature lead-free solder applications and is designed to withstand surface mount board processes on either the top or bottom side of the board. It can also be used on the top side of the board in mixed processes, and is recommended for the bottom side which is directly exposed to the wave solder environment. Halogen free; REACH and RoHS compliant. UL recognized.	572° F (90 sec) (300° C (90 sec) 500° F (5 mins) (260° C (5 mins)	Permanent Acrylic
S-429	Polyimide (Better)	2 mil	White	Gloss	Top-coated thermal transfer printable specifically designed for high temperature lead-free solder applications and is designed to withstand surface mount board processes on either the top or bottom side of the board. It can also be used on the top side of the board in mixed processes, and is recommended for the bottom side which is directly exposed to the wave solder environment. Halogen free; REACH and RoHS compliant. UL recognized.	572° F (90 sec) (300° C (90 sec) 500° F (5 mins) (260° C (5 mins)	Permanent Acrylic
S-408	Polyimide (Better)	2 mil	White	Gloss	Top-coated thermal transfer printable with resin ribbons up to 600 DPI. Designed for leaded and non-leaded reflow - top and bottom; wave solder - top preferred (bottom if GIG protected); and standard acidic solvent. Halogen free; REACH and RoHS compliant. UL recognized.	750° F (398° C) (intermittent) 500° F (260° C) (5 minute)	Permanent Acrylic
S-415	Polyimide (Better) "aggressive adhesive"	2 mil	White	Gloss	Top-coated thermal transfer printable specifically designed for high temperature lead-free solder applications and is designed to withstand surface mount board processes, on either the top or bottom side of the board, as well as mixed processes on the top side, and is recommended for the bottom side which is directly exposed to the wave solder environment. Halogen free; REACH and RoHS compliant. UL recognized.	572° F (90 sec) (300° C (90 sec) 500° F (5 mins) (260° C (5 mins)	Permanent Acrylic
S-466	Polyimide "static safe" low ESD	1 mil	White	Gloss	Top-coated "static-safe" thermal transfer printable with ESD values of less than 100 volts per sq. in. per EIA 625 and 541. The print resists smearing, even when the board and label are directly removed from a wave solder environment. Halogen free; REACH and RoHS compliant. UL recognized	572° F (90 sec) (300° C (90 sec) 500° F (5 mins) (260° C (5 mins)	Permanent Acrylic
S-467	Polyimide "static safe" low ESD	2 mil	White	Gloss	Top-coated "static-safe" thermal transfer printable with ESD values of less than 100 volts per sq. in. per EIA 625 and 541. The print resists smearing, even when the board and label are directly removed from a wave solder environment. Halogen free; REACH and RoHS compliant. UL recognized	572° F (90 sec) (300° C (90 sec) 500° F (5 mins) (260° C (5 mins)	Permanent Acrylic

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Number	Polyimide Materials (cont'd)	Mil	Color	Finish	Description	Temperature Rating	Adhesive
S-403	**Polyimide** "flame retardent"	**2 mil**	**White**	**Gloss**	Designed to be flame retardant to the UL94 VTM-0 standard.		
S-432	**Polyimide (Best)** "highly durable"	**2 mil**	**White**	**Gloss**	Top-coated thermal transfer printable specifically designed for high temperature lead-free solder applications. Withstands harsh highly active fluxes (ORH1) and resists abrasion at elevated temperatures. Appropriate for surface mount board processes, on either the top or bottom side of the board, as well as fixed processes on the top side and for the bottom side which is directly exposed to the wave solder environment. Halogen free; REACH and RoHS compliant. UL recognized	572° F (90 sec) (300° C (90 sec) 500° F (5 mins) (260° C (5 mins)	Permanent Acrylic
S-457	**Polyimide (Best)** "highly durable"	**2 mil**	**White**	**Gloss**	Top-coated thermal transfer printable specifically designed for high temperature lead-free solder applications and is designed to withstand surface mount board processes, on either the top or bottom side of the board, as well as mixed processes on the top side, and is recommended for the bottom side which is directly exposed to the wave solder environment. Halogen free; REACH and RoHS compliant. UL recognized	572° F (90 sec) (300° C (90 sec) 500° F (5 mins) (260° C (5 mins)	Permanent Acrylic
S-446	**Polyimide** "super-buff"	**2 mil**	**Tan**	**Matte**	Top-coated thermal transfer printable specifically designed for high temperature lead-free solder applications and is designed to withstand surface mount board processes, on either the top or bottom side of the board, as well as mixed processes on the top side, and is recommended for the bottom side which is directly exposed to the wave solder environment. With appropriate ribbon, withstands exposure to ether-polyol & active solvents. Halogen free; REACH and RoHS compliant. UL recognized.	572° F (90 sec) (300° C (90 sec) 500° F (5 mins) (260° C (5 mins)	Permanent Acrylic
S-455	**Polyimide** "yellow"	**2 mil**	**Yellow**	**Gloss**	Top-coated thermal transfer printable designed to withstand surface mount board processes, on either the top or bottom side of the board, as well as mixed processes on the top side, and is recommended for the bottom side which is directly exposed to the wave solder environment. Halogen free; REACH and RoHS compliant.	572° F (90 sec) (300° C (90 sec) 500° F (5 mins) (260° C (5 mins)	Permanent Acrylic
S-416	**Polyimide** "aggressive adhesive"	**2 mil**	**White**	**Gloss**	Top-coated thermal transfer printable specifically designed for high temperature lead-free solder applications and is designed to withstand surface mount board processes, on either the top or bottom side of the board, as well as mixed processes on the top side, and is recommended for the bottom side which is directly exposed to the wave solder environment. Adhesive is designed to adhere to rough surfaces. Halogen free; REACH and RoHS compliant. UL recognized	572° F (90 sec) (300° C (90 sec) 500° F (5 mins) (260° C (5 mins)	Permanent Acrylic (aggressive)
S-485	**Lt. Green Polyimide**	**2 mil**	**Lt. Green**	**Matte**	Green tinted top-coated thermal transfer printable designed for high temperature lead-free solder applications and is designed to withstand surface mount board processes, on either the top or bottom side of the board, as well as mixed processes on the top side, and is recommended for the bottom side which is directly exposed to the wave solder environment. Halogen free; REACH and RoHS compliant. UL recognized	572° F (90 sec) (300° C (90 sec) 500° F (5 mins) (260° C (5 mins)	Permanent Acrylic
S-486	**Lt. Green Polyimide**	**1 mil**	**Lt. Green**	**Matte**	Green tinted top-coated thermal transfer printable designed for high temperature lead-free solder applications and is designed to withstand surface mount board processes, on either the top or bottom side of the board, as well as mixed processes on the top side, and is recommended for the bottom side which is directly exposed to the wave solder environment. Halogen free; REACH and RoHS compliant. UL recognized.	572° F (90 sec) (300° C (90 sec) 500° F (5 mins) (260° C (5 mins)	Permanent Acrylic
S-618	**Polyimide Mask** "antistatic removable"	**2 mil**	**Amber**	**-**	Amber antistatic removable polymide, ideal for masking and insulation.	572° F (90 sec) (300° C (90 sec)	Acrylic

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Number	Other Materials	Mil	Color	Finish	Description	Service Temperature	Adhesive
S-511	**Paper**	**2.5 mil**	**White**	**Matte**	Bright, white, smooth facestock for high speed thermal transfer printing.	-65° F to 200° F (-54° C to 93° C)	Permanent Acrylic
S-511	**GB Paper** "alt paper"	**3 mil**	**White**	**Matte**	White paper for TTL printing	-65° F to 200° F (-54° C to 93° C)	Permanent Acrylic
S-512	**Paper** "aggressive adhesive"	**2.5 mil**	**White**	**Matte**	Bright, white, smooth facestock for high speed thermal transfer printing.	-65° F to 200° F (-54° C to 93° C)	Permanent Acrylic
S-521	**Polypropylene**	**3 mil**	**White**	**Matte**	Biaxially oriented, multi-layer polypropylene (BOPP) that features both chemical and moisture resistance as well as strength and durability. Good adhesive to corrugated, glass, and various plastic substrates.	-75° F to 200° F (-59° C to 93° C)	Permanent Acrylic
S-522	**Removable Polypropyl** "Removable"	**3 mil**	**White**	**Matte**	Biaxially oriented, multi-layer polypropylene that features both chemical and moisture resistance as well as strength and durability. Excellent long-term reomovability from a wide variety of surfaces.	-40° F to 200° F (-40° C to 93° C)	Removable Acrylic
S-525	**Freezer Polypropylene**	**3 mil**	**White**	**Matte**	Thermal transfer printable polypropylene with an all temperature acrylic adhesive that performs in both cold and damp environments and in elevated temperature applications.	-65° F to 200° F (-54° C to 93° C)	Permanent Acrylic
S-532	**Freezer Paper**	**2.5 mil**	**White**	**Matte**	Ultra-smooth, coated face material for excellent thermal transfer printing and flexography.	-65° F to 147° F (-54° C to 64° C)	Permanent Hot melt rubber
S-555	**Direct Paper**	**3.2 mil**	**White**	**Matte**	Non top-coated direct thermal transfer paper	-65° F to 180° F (-54° C to 82° C)	Permanent Acrylic
S-560	**Removable Paper**	**2.8 mil**	**White**	**Matte**	Removable thermal transfer paper	1° F to 140° F (-17° C to 60° C)	Removable Acrylic 531
S-565	**Removable Paper**	**2.8 mil**	**White**	**Matte**	Removable thermal transfer paper	-50° F to 125° F (-46° C to 52° C)	Removable Acrylic 80301
S-575	**Clear Vinyl**	**tbd**	**Clear**	**Matte**	Frosty clear vinyl	tbd	Permanent Acrylic
S-592	**Cryo Polypropylene**	**2.3 mil**	**White**	**Gloss**	Biaxially oriented, coextruded polypropylene film, with good opacity. Topcoated to provide superior printability by flexographic and thermal transfer methods. Facestock is resistant to many chemicals, including xylene, isopropanol, dimenthyl, sulfoxide, and 10% hydrochloric acid.	-80° F to 194° F (-112° C to 90° C)	Permanent Acrylic
S-601	**Piggy-back paper**	**2.5 mil**	**White**	**Matte**	Piggy-back white paper for TTL printing on white paper	-65° F to 200° F (-54° C to 93° C)	Permanent Acrylic
S-730	**Destructible Vinyl**	**2 mil**	**White**	**Satin**	White destructible for flexo printing	-40° F to 225° F (-40° C to 107° C)	Permanent Acrylic
S-739	**Reflective**	**tbd**	**White**	**Gloss**	White reflective for Thermal Transfer printing	tbd	Permanent Acrylic