

THERMAL TRANSFER LABEL MATERIAL LIST

Number	Polyester Materials	Mil	Color	Finish	Description	Service Temperature	Adhesive
S-366	Polyester "static safe"	2 mil	White	Gloss	Top-coated thermal transfer printable with resin and wax/resin ribbons. Static dissipative, in accordance with EIA 625 and EIA 541. Acrylic adhesive bonds well to low- and high- surface energy plastics, metal, powder coated paint, pain, ceramic, paper/fiber, glass and fiberglass.	-40° F to 302° F (-40° C to 150° C)	Permanent Acrylic
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, including power coat and enamel paints. UL recognized	-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 peel and resists cold f and oozing. Bonds well to low- and high-surface energy plastics, painted metal, powder coated paint, polycarbonate 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	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	3M 7872		
S-395	Polyester	5 mil	Silver	Matte			
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

THERMAL TRANSFER LABEL MATERIAL LIST

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)	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

THERMAL TRANSFER LABEL MATERIAL LIST

Number	Polyimide Materials (cont'd)	Mil	Color	Finish	Description	Temperature Rating	Adhesive
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 polyimide, ideal for masking and insulation.	572° F (90 sec) (300° C (90 sec)	Acrylic

THERMAL TRANSFER LABEL MATERIAL LIST

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-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	Polypropylene "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