



THERMAL TRANSFER LABEL MATERIAL LIST

Number	Material	Mil	Color	Finish	Description	Service Temperature	Adhesive	Notes
*S-209	Vinyl	2 mil	White	Gloss	3M ScotchCal Film 3690E provides high initial tack and bond to most surfaces, including painted metal and low surface energy plastics and provides durable marking for demanding applications High tack, aggressive permanent pressure sensitive acrylic adhesive.	-76° F to 203° F (-60° C to 95° C)	High Tack Acrylic	CSA, UL
*S-366	Polyester "static safe"	2 mil	White	Gloss	"Static-safe" with ESD values of less than 25 volts per square inch. Designed to withstand many surface mount board processes, but is not suited for temperatures above 400° F	-40° F to 275° F (-40° C to 135° C)	Permanent Acrylic	
S-371	Polyester	2 mil	White	Gloss	Top-coated thermal transfer printable with resin and wax/resin ribbons.	-40° F to 302° F (-40° C to 150° C)	Permanent Acrylic	CSA, UL
S-372	Polyester	2 Mil	White	Gloss	Top-coated thermal transfer printable coated with aggressive, high-performance permanent pressure-sensitive acrylic adhesive, coated to prevent label pickoff.	-40° F to 302° F (-40° C to 150° C)	Permanent Acrylic	CSA, UL
S-375	Polyester	2 mil	White	Matte	Matte topcoated polyester film designed for cross-technology printability via impact, laser, electron beam, wax, resin, and wax/resin thermal transfer. Permanent Acrylic adhesive bonds well with many surfaces.	-40° F to 302° F (-40° C to 150° C)	Permanent Acrylic	UL
S-388	Polyester	2 mil	Silver	Matte	Top-coated thermal transfer printable with wax, wax/resin, and resin ribbons. Aggressive, high-performance permanent pressure sensitive acrylic adhesive.	-40° F to 302° F (-40° C to 150° C)	Permanent Acrylic	UL
S-389	Polyester	2 mil	Silver	Gloss	Top-coated thermal transfer printable with resin and wax/resin ribbons. Aggressive, high-performance permanent pressure sensitive acrylic adhesive.	-40° F to 302° F (-40° C to 150° C)	Permanent Acrylic	CSA, UL
S-391	Polyester "tamper evident" "Void" Footprint	2 mil	Silver	Matte	Tamper evident thermal transfer printable with resin and wax resin ribbons. After 24 hours of dwell time, label removal will result in a "void" footprint. General purpose permanent pressure sensitive acrylic adhesive.	-40° F to 302° F (-40° C to 150° C)	Permanent Acrylic	UL
S-392	Polyester "tamper evident" "Checker Board"	2 mil	Silver	Matte	Tamper evident thermal transfer printable with resin and wax resin ribbons. After 24 hours of dwell time, label removal will result in a "checkerboard" footprint. General purpose permanent pressure sensitive acrylic adhesive.	-40° F to 302° F (-40° C to 150° C)	Permanent Acrylic	UL
*S-399	Polyester	2 mil	Clear	Gloss	Clear Gloss polyester thermal transfer film coated with a high tack permanent acrylic adhesive on a 50lb. Liner. Use with wax/resin and resin ribbons.	-40° F to 302° F (-40° C to 150° C)	Permanent Acrylic	UL
*S-400	White Reflective	4 mil	White	Reflect.	Topcoated thermal transfer printable white reflective polyester film with a permanent pressure sensitive acrylic adhesive. Use with wax/resin ribbons. This product is for long range barcoding.	-40° F to 176° F (-40° C to 80° C)	Permanent Acrylic	



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S-415	Polyimide	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.	600° F (50 mins) (315° C (50 mins))	Permanent Acrylic	UL
S-446	Polyimide "super-buff"	2 mil	Tan	Matte	Top-coated thermal transfer printable designed to withstand mixed circuit board processes, on either the top or bottom side of the board.	500° F (5 mins) (260° C (5 mins))	Permanent Acrylic	UL
S-454	Polyimide	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.	600° F (50 mins) (315° C (50 mins))	Permanent Acrylic	UL
*S-455	Polyimide	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.	500° F (5 mins) (260° C (5 mins))	Permanent Acrylic	
*S-466	Polyimide "static safe"	1 mil	White	Gloss	Top-coated "static-safe" thermal transfer printable with ESD values of less than 25 volts per sq. in. 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.	500° F (5 mins) (260° C (5 mins))	Permanent Acrylic	
S-475	Polyimide "super-buff"	1 mil	Tan	Matte	Top-coated thermal transfer and dot matrix 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.	500° F (5 mins) (260° C (5 mins))	Permanent Acrylic	
*S-483	Polyimide	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. Excellent dimensional stability.	600° F (50 mins) (315° C (50 mins))	Permanent Acrylic	UL



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S-485	Lt. Green Polyimide	2 mil	Lt. Green	Matte	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.	-40° to 550° F	Permanent Acrylic	
S-486	Lt. Green Polyimide	1 mil	Lt. Green	Matte	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.	-40° to 550° F	Permanent Acrylic	
*S-460	Polyethylene Naphthalene (PEN)	2 mil	White	Gloss	Top-coated thermal transfer printable designed to withstand surface mount board processes on the top side of the board (not recommended for bottom side which is exposed to wave solder environment). Better thermal resistance properties than polyester at a lower price than polyimide.	450° F (60 mins) (232° C (60 mins))	Permanent Acrylic	
*S-461	Polyetherimide	2 mil	White	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. (not recommended for the bottom side which is directly exposed to the wave solder environment) Better thermal resistance properties than polyester at a lower price than polyimide.	302° F (60 mins) (150° C (60 mins))	Permanent Acrylic	
S-511	Paper	2.5 mil	White	Matte	Bright, white, smooth facestock for high speed thermal transfer printing.		Permanent Acrylic	
S-521	Polypropylene	3 mil	White	Matte	Biaxially oriented, multi-layer polypropylene that features both chemical and moisture resistance as well as strength and durability. (AKA Kimdura)		Permanent Acrylic	
S-522	Polypropylene "Removable"	2.5 mil	White	Matte	Biaxially oriented, multi-layer polypropylene that features both chemical and moisture resistance as well as strength and durability. (AKA Kimdura)		Removable	
S-650	Polyethylene	4 mil	White	Matte	3.8 mil biaxially oriented polyethylene coated with hi-tack permanent rubber based adhesive. Meets British Standard 5609 for maritime labeling.	-65° F to 150° F	Permanent Rubber	
*S-651	Polyethylene "Destructible"	3 mil	White	Matte	Destructible White Matte Polyethylene		Permanent Acrylic	
*S-700	Polyolefin Tag	6.5 mil	White	Matte	6.5 mil print-receptive, two-sided white matte polyolefin tag stock. Printable via thermal transfer, dot matrix, electron beam and conventional ink systems. No adhesive or liner.	40° F to 200° F	NONE	
*S-701	Polyolefin Tag	9.5 mil	White	Matte	9.5 mil print-receptive, two-sided white matte polyolefin tag stock. Printable via thermal transfer, dot matrix, electron beam digital offset (indigo) and conventional ink systems. No adhesive or liner.	40° F to 200° F	NONE	