

Datamax O'Neil Printer Supplies - Materials Matrix

<i>Thermal Transfer Paper Labels</i>	<i>Product Description</i>	<i>Applications</i>	<i>Adhesive</i>	<i>Min. App. Temp</i>	<i>Service Temp.</i>	<i>Recommended Ribbons</i>	<i>Premium or Economy</i>
Standard TTL	A premium coated, ultra-smooth thermal transfer paper label stock featuring an aggressive general purpose acrylic adhesive.	General purpose indoor labeling applications under almost any lighting conditions. Packaging labels, retail applications and high quality barcoding.	Permanent	25°F	-65°F to 200°F	GPR Plus, PGR Plus, SDR-A	Premium
TTL-Freezer	A premium coated, ultra-smooth thermal transfer paper label stock featuring an aggressive freezer grade acrylic adhesive.	Refrigeration and industrial applications requiring extremely cold application and service temperatures.	Freezer	-20°F	-40°F to 200°F	GPR Plus, PGR Plus, SDR-A	Premium
TTL-Opaque	A premium coated paper label stock designed for excellent thermal transfer printing with a permanent opaque adhesive. Excellent for labels that are applied over old labels and pre-printed corrugated.	Applications requiring a "cover-up" label.	Opaque or Blackout	-20°F	-65°F to 200°F	GPR Plus, PGR Plus, SDR-A	Premium
TTL-HCWB	A premium coated, ultra-smooth thermal transfer paper label stock featuring an ultra high tack adhesive designed for the more demanding applications.	Applications requiring very high initial tack and ultimate bond on rough, porous or hard to label surfaces.	Heavy Coat Weight	32°F	-75°F to 200°F	GPR Plus, PGR Plus, SDR-A	Premium
TTL-REM	A premium coated, ultra-smooth thermal transfer paper label stock featuring a general purpose removable acrylic adhesive.	Product identification, shelf and bin labels, storage labeling, retail applications or any application requiring long-term removability.	Removable	32°F	-40°F to 200°F	GPR Plus, PGR Plus, SDR-A	Premium
TTL-UR	A premium coated, ultra-smooth thermal transfer paper label stock featuring an acrylic based ultra-removable adhesive.	For applications requiring long-term removability and repositionability over a broad range of surfaces. May not be suitable for curved surfaces.	Ultra Removable	20°F	-40°F to 160°F	GPR Plus, PGR Plus, SDR-A	Premium
TTL-DISP	A premium coated, ultra smooth thermal transfer paper label stock featuring a special adhesive that removes cleanly from paper or glass, yet the same label adheres to wood and even damp cold surfaces.	Recommended for applications where reapplying and long-term removability is required. This product complies with FDA 21 CFR 175.105.	Dispersion	20°F	-20°F to +250°F	GPR Plus, PGR Plus, SDR-A	Premium
TTL-PB	A premium coated thermal transfer paper label stock designed for excellent thermal transfer printing. The label stock is "piggybacked" on a second release liner to allow the label to be reapplied then the top layer can be removed and reapplied at a later time.	Applications where a multi-layered label is required such as healthcare billing labels, direct mailers and lottery applications.	Permanent	32°F	-75°F to 200°F	GPR Plus, PGR Plus, SDR-A	Premium
TTL-AT2	A ultra smooth matte coated thermal transfer paper label featuring an all-temperature acrylic adhesive.	Applications requiring an adhesive that will withstand a wide range of environmental and temperature conditions.	All Temp	-20°F	-65°F to 200°F	GPR Plus, PGR Plus	Economy
TTL-PB2	A ultra smooth matte coated thermal transfer paper piggyback label featuring a permanent acrylic adhesive with good adhesion to a wide variety of substrates.	Healthcare billing labels, direct mailers, lottery applications and work in progress.	Permanent	32°F	-4°F to 176°F	GPR Plus, PGR Plus	Economy
TTL-RB	A bright white, ultra smooth thermal transfer paper label stock with a general purpose hot melt rubber based adhesive that adheres to a wide variety of substrates including styrene's, polypropylenes, polyethylene's and paper.	Applications requiring a quick tack permanent adhesive that complies with FDA 21 CFR 175.105.	Rubber Based	20°F	-65°F to 160°F	GPR Plus, PGR Plus, SDR-A	Premium
Greatlabel Semi-Gloss	A semi gloss paper based label material featuring a permanent rubber based adhesive. Great for general purpose use but not recommended for thermal transfer printing.	Prime label for applications requiring a semi-gloss finish and a quick tack permanent adhesive.	Permanent	25°F	-65°F to 150°F	N/A	Economy
Kromekote	A premium coated paper label stock designed for excellent thermal transfer printing with a glossy appearance featuring an aggressive permanent acrylic adhesive.	Glossy paper label. This product is FDA compliant for incidental food contact, CONEG, Heavy metals, ASTM F963a child toy safety.	Cold Temp/Permanent	25°F	-10°F to 200°F	GPR Plus, PGR Plus, SDR-A	Premium
EDP-Premium	A paper label stock good for impact, dot matrix and continuous laser print technologies.	Suitable for most retail and industrial applications.	Permanent	25°F	-40°F to 300°F	N/A	Premium
Sheeted Laser	50# paper face sheet with permanent adhesive.	Designed for use with photocopiers, Laser and Ink jet printers for variable information labeling where good lay-flat properties are required.	Permanent	32°F	-4F to 248°F	N/A	Premium
Pinfeed Laser	A bright white, uncoated, high strength paper specially designed for enhanced continuous laser imaging with excellent smudge resistance.	General purpose indoor labeling applications.	Permanent	25°F	-65°F to 200°F	N/A	Premium
Ink Jet Labels	A premium, semi-gloss paper based label material designed for high end color ink jet applications. Good resistance to water with a quick dry time.	Applications printing variable information in conjunction with full color graphics.	Permanent	25°F	-65°F to 200°F	N/A	Premium

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<i>Direct Thermal Paper Labels</i>	<i>Product Description</i>	<i>Applications</i>	<i>Adhesive</i>	<i>Min. App. Temp</i>	<i>Service Temp.</i>	<i>Recommended Ribbons</i>	<i>Premium or Economy</i>
Standard-DTL	A high quality general-purpose direct thermal paper label stock featuring an all-temperature permanent adhesive. Meets FDA 175.105	General purpose indoor labeling applications . Not recommended for applications with exposure to sunlight, fluorescent lamps or heat.	Permanent	20°F	-65°F to 160°F	N/A	Premium
DTL-REM	A high quality, top-coated direct thermal paper label stock featuring a general purpose, all-temperature removable acrylic adhesive. Requires a visible light (633nm) scanning device for bar codes.	General purpose indoor labeling applications where long-term removability is required. Material can withstand some contact with alcohol, blood, grease and water. Meets FDA 175.	Removable	32°F	-40°F to 200°F	N/A	Premium
DTL-2	A high quality, medium sensitivity top-coated direct thermal paper, featuring an aggressive general-purpose permanent adhesive.	General purpose indoor labeling applications. Airline, bag-tag food labels and vendor marking.	Permanent	-40°F	-65°F to +131°F	N/A	Economy
DTL-E2	A medium sensitivity non top-coated, direct thermal paper, featuring an aggressive all-temperature permanent adhesive.	General purpose indoor labeling applications. Not recommended for applications with exposure to sunlight fluorescent lamps or heat.	Permanent	20°F	-65°F to 160°F	N/A	Economy
DTL-DISP	Direct thermal label stock featuring a water based dispersion adhesive which exhibits good adhesion with clean long-term removability from most smooth surfaces. Complies with FDA 175.105.	Recommended for applications where reapplying and long-term removability is required and where FDA compliance is necessary.	Dispersion	-20°F	-20°F to 250°F	N/A	Premium
DTL-AT2	Direct thermal paper, top barrier coated label stock with good environmental resistance. Adhesive has good adhesion at low temps with limited heat resistance. Adhesive becomes more aggressive as the temperature drops.	Recommended for cold environments applications such as cold food packaging, especially those below 32°F.	All Temperature	-20°F	-65°F to 200°F	N/A	Economy
DTL-HCW	Direct thermal high quality, top-coated general purpose label stock featuring an aggressive ultra high tack acrylic adhesive.	Ideal for rough surfaces such as wood, textured substrates and tire labels.	Heavy Coat Weight	32°F	-75°F to 200°F	N/A	Premium
DTL-PB	Direct thermal premium, top-coated label stock that is "piggybacked" on a second release liner. Adhesive has good initial tack and excellent adhesion to a wide variety of surfaces.	Recommended for shipping, record keeping and inventory tracking. Not recommended for applications with exposure to sunlight, fluorescent lamps or heat.	Permanent	32°F	-75°F to 200°F	N/A	Premium
DTL-REM2	A high quality, top-coated direct thermal paper label stock featuring a general purpose, removable acrylic adhesive.	Applications requiring UV light resistance. Suitable for most retail and industrial applications.	Removable	41°F	-4°F to 276°F	N/A	Economy
DTL-Freezer	A premium coated direct thermal label stock, top-coated for excellent environmental resistance. Features a freezer, all-temperature, cold temperature grade adhesive.	Recommended for retail, healthcare and industrial applications. For UPC and price marking applications requiring an all temperature adhesive. This product requires a visible light (633 nm) scanning device for bar codes.	All Temperature	-20°F	-65°F to 200°F	N/A	Premium

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<i>Synthetic Labels</i>	<i>Product Description</i>	<i>Applications</i>	<i>Adhesive</i>	<i>Min. App. Temp</i>	<i>Service Temp.</i>	<i>Recommended Ribbons</i>	<i>Premium or Economy</i>
TTL SYN PAPER	A durable 3 mil polypropylene based label material designed for excellent thermal transfer printability with a permanent acrylic adhesive.	Drum labels, prime labels, asset labels, price tags, item tracking and hard to label surfaces such as stainless steel and glass.	Permanent	25°F	-40°F to 300°F	GPR Plus, PGR Plus, SDR-A	Premium
TTL SYN PAPER 4	6.1 mil matte white polypropylene top-coated for thermal transfer printing. This product features a general purpose permanent adhesive on a 40# liner.	Drum labels, prime labels, asset labels, price tags, item tracking and hard to label surfaces such as stainless steel and glass.	Permanent	40°F	-40°F to 200°F	GPR Plus, PGR Plus, SDR-A	Economy
TTL SYN PAPER REM	3 mil white polypropylene is a biaxially oriented, top-coated film for applications where durability, strength and printability are key. This product features a general purpose, removable adhesive with medium initial tack and minimal adhesion build up.	Recommended for drum labeling, shelf marking, parts and inventory applications.	Removable	40°F	-40°F to 200°F	GPR Plus, PGR Plus, SDR-A	Economy
TTL SYN PAPER HCW	A polyolefin based, clay-coated film featuring an aggressive permanent adhesive providing excellent adhesion to a variety of surfaces. Offers good UV resistance and weathering characteristics.	Drum labels, prime labels, asset labels, price tags and item tracking labels and hard to label surfaces such as stainless steel and glass.	Heavy Coat Weight	-10°F	-65°F to 200°F	GPR Plus, PGR Plus, SDR-A	Economy
KIMDURA1	A durable biaxially oriented polypropylene based label material designed for excellent thermal transfer printability. This material provides moisture and chemical resistance featuring a permanent acrylic adhesive.	Drum labels, prime labels, asset labels, price tags and item tracking labels. Applications that require a label that will withstand exposure to water, dirt, oil, blood and alcohol.	Permanent	25°F	-75°F to 200°F	GPR Plus, PGR Plus, SDR-A	Premium
KIMDURA-REM	A very durable biaxially oriented polypropylene film designed for excellent thermal transfer printability featuring a removable acrylic adhesive.	Drum labeling, shelf marking, parts and inventory labels and any other applications where a strong durable label with a removable adhesive is required.	Removable	-32°F	-40°F to 200°F	GPR Plus, PGR Plus, SDR-A	Premium
KIMDURA-HCWB	A very durable biaxially oriented polypropylene film designed for excellent thermal transfer printability featuring a heavy coat weight, permanent acrylic adhesive.	Recommended for a wide variety of substrates such as wood, textured and porous surfaces and tires. Applications where moisture, chemical resistance and a high initial tack adhesive is required.	Heavy Coat Weight	32°F	-75°F to 200°F	GPR Plus, PGR Plus, SDR-A	Premium
POLYPROP 6	2.6 mil glossy white top-coated polypropylene film that is thermal transfer printable. Features a permanent acrylic adhesive.	Recommended for applications that are resistant against water, oil, chemicals and UV exposure. Also great for toiletries and cosmetic applications.	Permanent	40°F	-4°F to 212°F	PGR Plus, SDR-A	Premium
TT POLYPROP AT	A durable opaque, matte, white polypropylene based label material designed for excellent thermal transfer printability with an all temp/cold temp/freezer adhesive.	Economical for applications requiring the durability of a film label with an adhesive for cold and high temperature environments.	All Temperature	-20°F	-40°F to 200°F	PGR Plus, SDR-A	Premium
TT-POLYPROP-DISP	Thermal transfer polypropylene with good temporary adhesion to difficult surfaces including wet/damp applications with excellent clean, long-term removability.	Drum labeling, shelf marking, parts and inventory labels with a clean, long-term, repositionable adhesive is required.	Dispersion	20°F	-20°F to 250°F	PGR Plus, SDR-A	Premium
DTL-SYNB	Retail, healthcare and industrial markets. Applications such as shipping, poultry cartons, laboratory, patient tracking, record keeping and inventory tracking.	A durable, high sensitivity synthetic direct thermal label stock with good environmental resistance featuring a general purpose, all-temperature permanent acrylic adhesive.	All Temperature	18F	-40°F to 200°F	N/A	Premium

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<i>Thermal Transfer Polyester/Films</i>	<i>Product Description</i>	<i>Applications</i>	<i>Adhesive</i>	<i>Min. App. Temp</i>	<i>Service Temp.</i>	<i>Recommended Ribbons</i>	<i>Premium or Economy</i>
Fantastock White & Silver	UL recognized 2 mil glossy white and silver polyester with permanent industrial grade adhesive. Features excellent tear strength, heat resistance and chemical resistance. CSA accepted electronic printing technology.	Recommended for applications where exposure to harsh environments such as rain, sun, oil, grease, dirt and alcohol are required.	Permanent	50°F	-40°F to 302°F	SDR, SDR-5	Premium
Fantastock 2 White Silver & Clear	UL recognized 2 mil glossy white, silver and clear polyester with permanent industrial grade adhesive. Features excellent tear strength, heat resistance and chemical resistance.	Recommended for applications where exposure to harsh environments such as rain, sun, oil, grease, dirt and alcohol are required.	Permanent	25°F	-40°F to 300°F	SDR, SDR-A, SDR-5	Premium
Fantastock 3	2 mil white polyester top-coated for thermal transfer printing. It features a permanent pressure sensitive acrylic adhesive and is backed by a semi bleached kraft release liner. This material is UL recognized.	Recommended for applications where exposure to harsh environments such as rain, sun, oil, grease, dirt and alcohol are required.	Permanent	32°F	-40°F to 302°F	SDR, SDR-A, SDR-5	Economy
Fantastock HCW White & Silver	UL recognized 2 mil glossy white and silver polyester with permanent heavy coat weight industrial grade adhesive. Features excellent tear strength, scratch and heat resistance.	Recommended for applications where exposure to harsh environments such as rain, sun, oil, grease, dirt and alcohol are required. Designed for powder coatings and oily metals.	Heavy Coat Weight	50°F	-40°F to 350°F	SDR, SDR-A, SDR-5	Premium
Fantastock Void White & Silver	An exceptionally durable, white or silver polyester label material with permanent acrylic adhesive with a security feature in the adhesive that will leave a "void" pattern when label is removed.	Asset labeling, serial number and identification labels, durable goods, retail and jewelry applications or any application requiring a security feature.	Permanent	50°F	-40°F to 302°F	SDR, SDR-A, SDR-5 on Fantastock white only	Premium
Tamper Evident Film	This product is a clay-coated film compatible with impact and non-impact printing. It is water-proof, tear resistant and has a tamper evident feature. It has a general purpose permanent adhesive with excellent quick stick properties.	Recommended for auto apply, shipping container, pharmaceutical and theft deterrent applications. This product is strong and durable and handles without tearing until after being applied.	Permanent	40°F	-50°F to 150°F	SDR, SDR-A, SDR-5	Economy
Polyplate	5 mil thermal transfer polyester label. This product features an aggressive permanent adhesive and it is UL recognized.	Economical label to replace expensive ratings plates.	Permanent	32°F	-40°F to 302°F	SDR, SDR-A, SDR-5	Premium
Retroreflective	5.5 mil retro-reflective polyester film designed to reflect light back to its source. Meets or exceeds L-S 300C Table IV reflectivity 3. Features a permanent acrylic adhesive with a very high shear rating.	Applications requiring long distance scanning specifically warehouse rack location and aisle labeling where scanning distances can range from 20 ft. to 40 ft.	Permanent	45°F	-40°F to 300°F	SDR, SDR-5	Premium

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<i>Paper Tags/Tickets</i>	<i>Product Description</i>	<i>Applications</i>	<i>Adhesive</i>	<i>Min. App. Temp</i>	<i>Service Temp.</i>	<i>Recommended Ribbons</i>	<i>Premium or Economy</i>
TTTag	Thermal transfer tag is a 7 mil bright white general purpose tag stock that offers a superior flexographic print quality. This tag is the 'industry standard' from which all other grades are measured.	Recommended for tag and ticket applications where some contact with alcohol, oil, grease, blood and water are possible. Retail and garment hang tags.	None		-40°F to 150°F	GPR Plus, PGR Plus, SDR-A	Premium
TTT-E	Economical uncoated, general purpose thermal transfer tag stock.	Economical tag recommended for alpha numeric barcodes, graphics, work in progress, retail and garment applications.	None		-40°F to 150°F	GPR Plus, PGR Plus	Economy
DTag/Ticket	Direct thermal, top-coated ticket stock. Requires a visible light (633 nm) scanning device for barcodes. This product has excellent lay-flat properties in all temperature and humidity ranges.	Recommended for retail, kiosks, parking gate, toll booths, cinema and theatre ticketing.	None		-20°F to 120°F	N/A	Premium
Synthetic Tags							
TTT-SYN (Valeron)	7.5 mil synthetic tag stock that is a tear resistant flexible film which can be exposed to a wide temperature range.	Applications requiring a tag that is resistant to weather, some chemicals, tearing and puncturing. Also for retail and industrial applications.	None		-70°F to 180°F	GPR Plus, PGR Plus, SDR-A	Premium
V-MAX	V-Max is a high density, print grade polyethylene film that is chemical resistant. It will withstand UV exposure outdoors for one year. It offers excellent thermal transfer printability.	Recommended for automotive, horticultural, steel and brick industry. Also packaging, forest products and product identification markets.	None		-70°F to 200°F	GPR Plus, PGR Plus, SDR-A	Premium
Tyvek Standard	7.5 mil Tyvek is a thermal transfer printable material made of polyethylene fibers that is strong, lightweight, flexible, smooth, low-linting, opaque and resistant to water, chemical abrasion and aging.	Recommended for luggage tags, steel, rebar tags, boarding passes, gas cylinders tags, ski tags, hunting licenses, shell fish tags, textile and tree/nursery tags.	None		-100°F to 175°F	GPR Plus, PGR Plus, SDR-A	Economy
Tyvek Brillion	7 mil Tyvek Brillion is a premium, smooth synthetic thermal transfer tag stock with improved whiteness and surface smoothness for improved printability.	Recommended for retail hangtags, pillow/mattress tags, carpel/textile tags, nursery tags and recreational industrial tags.	None		-100°F to 175°F	GPR Plus, PGR Plus, SDR-A	Premium
Care Tag	A coated textile fabric designed to provide high performance for clothing care and industrial labeling. It is designed to resist moisture, abrasion, heat, fading, cracking, dry cleaning and other solvents.	Recommended for posters, signs, race numbers labels, maps, point of purchase materials and clothing care tags.	None	Softening point 180°C	Melting point 215°C to 220°C	SDR-TX	Premium
Thermal Transfer Electronic Labels							
Glossy White Polyester	5.8 mil top-coated glossy polyester film for electronic labeling featuring an aggressive permanent acrylic adhesive. This material has excellent solvent and scratch resistance. It is UL and CSA recognized.	Recommended for nameplates or serial identification labels in finished products. Also rating plates, property identification and electronic component marking.	Permanent	50°F	-40°F to 302°F	SDR, SDR-5	Premium
Glossy White Polyimide	7.8 mil top-coated glossy white polyimide film featuring an aggressive permanent acrylic adhesive. This material will withstand 1000°F temperatures for 1-2 second bursts. For indoor use only.	Recommended for electronic components, top/bottom of printed circuit boards. This material is designed to withstand high temperatures and harsh chemicals.	Permanent	50°F	572°F to 1000°F	SDR, SDR-5	Premium
Matte Tan Polyimide	7.8 mil top-coated matte tan polyimide film featuring an aggressive permanent acrylic adhesive. This material will withstand 1000°F temperatures for 1-3 second bursts. For indoor use only.	Recommended for electronic components, top/bottom of printed circuit boards. This material is designed to withstand high temperatures and harsh chemicals.	Permanent	50°F	572°F to 1000°F	SDR, SDR-A, SDR-5	Premium
Anti-Static White Polyimide	7.7 mil top-coated semi-gloss, anti-static polyimide film featuring an aggressive permanent acrylic adhesive. This material will withstand 1000°F temperatures for 1-3 second bursts. For indoor use only.	Recommended for electronic components, top/bottom of printed circuit boards and applications that require an ESD material. This material will withstand high temperatures and harsh chemicals.	Permanent	50°F	572°F to 1000°F	SDR, SDR-5	Premium
Cable Wire Label	7.8 mil self laminating translucent vinyl suitable for thermal transfer printing on the opaque white area. This material features a permanent acrylic adhesive. For indoor use only.	Recommended for cables, wires and other surfaces that require conformability.	Permanent	40°F	-20°F to 140°F	PGR Plus, SDR-A	Premium