



Outdoor Labeling Supply Selection Guide

Labels used outdoors need to stay fixed and readable even when exposed to temperature changes, UV light, and moisture. Outdoor labels must often be flexible enough for use on materials or assets with irregular shapes and surfaces.

KEY APPLICATIONS

- Assets, vending machines and utility boxes and meters
- Chemical drums and containers
- Signs and posts
- Finishing goods



Assets, Vending Machines and Utility Meters

Labels that identify capital assets, meters and vending machines must resist damage from temperature extremes and scratches and abrasion, providing years of reliable identification and data collection.

Top recommended products for outdoor asset, vending machine and utility meter label applications:

Product Name	Material	Adhesive	Key Attributes	Durability
Z-Xtreme 2000T	Thermal transfer matte polyester	Permanent acrylic	UL/cUL acceptance, can be used for serial plate labeling, can be used up to 3 years outdoors	Resistant to moisture, abrasion, and weak to moderate chemicals.
Z-Ultimate 2000T Color Stay	Thermal transfer gloss polyester with clear gloss polyester overlaminate	High-performance permanent acrylic	Clear overlaminate protects color flood coat for up to 2 years	Resistant to moisture, abrasion, and weak to moderate chemicals
Z-Endure 4000T	Thermal transfer acrylic	Permanent acrylic	Lasts for up to 10 years outdoors	Resistant to moisture and weak to moderate chemicals
8000T Void Gloss	Thermal transfer white gloss polyester	Adhesive that leaves "void" pattern when label is removed	Tamper-proof applications	Resistant to moisture and weak to moderate chemicals



Chemical Drums and Containers

Chemical drum and container labels must be durable as well as compliant with regulatory requirements such as the Globally Harmonized System for Classification and Labeling of Chemicals (GHS).

Top recommended product for chemical drum label applications:

Product Name	Material	Adhesive	Key Attributes	Durability
PolyPro 3000T	Thermal transfer matte polypropylene	Permanent acrylic. Also available in high-tack.	Produced high print quality, some flexibility for labeling curved surfaces, withstands temperature exposure up to 250° F.	Lasts 1-2 years outdoors and can withstand exposure to moderate moisture, abrasion, and chemicals
8000T GHS Vinyl	Thermal transfer matte white vinyl	Permanent acrylic	Flexibility for curved surfaces and adhesive bonds to painted steel, fiber, and plastic. BS 5609 Section 2 and 3 certified when paired with 5095 resin ribbon and Red Resin ribbon.	Resistant to moisture and abrasion. Excellent resistance to chemicals.
8000T Image Lock	Thermal transfer polyolefin	Permanent acrylic	Designed for challenging label applications in temperature ranges from -112° to 248° F	Resistant to moisture, abrasion and weak to moderate chemicals.



Signs and Posts

Labels affixed to signs, posts and pipes need to be made of long-lasting material and result in high print quality. They must also be weather-resistant and have a high resistance to fading.

Top recommended products for sign and post label applications:

Product Name	Material	Adhesive	Key Attributes	Durability
Z-Endure 3000T	Thermal transfer acrylic film with reflective glass bead coating	High-performance permanent acrylic	For aluminum and stainless steel surfaces; lasts for up to 7 years	For aluminum and stainless steel surfaces; lasts for up to 7 years
Z-Endure 4000T	Thermal transfer acrylic	Permanent acrylic	Lasts for up to 10 years outdoors	Resistant to moisture and weak to moderate chemicals
8000T Vinyl Outlast	Thermal transfer white semi-gloss vinyl	Permanent acrylic	Lasts for 5 years outdoor	Resistant to moisture, abrasion and weak to moderate chemicals



Finished Goods

When assets need to be stored in a yard, such as in building materials, lumber products, horticulture, steel/wire products, and large equipment, choose labels that are resistant to rain and water and that won't fade throughout your operation's busiest season— and beyond.

Top recommended products for finished good label applications:

Product Name	Material	Adhesive	Key Attributes	Durability
ThermaLock 4000D	Direct thermal silver gloss polypropylene	Permanent acrylic adhesive	Fade resistant and some flexibility for labeling curved surfaces. Designed for use up to 18 months outdoors at temperatures from -65° to 248° F.	Resistant to moisture and moderate chemicals
PolyPro 3000T	Thermal transfer polypropylene	Permanent acrylic	Meets FDA 175.105 for indirect food contact requirements	Resistant to moisture, abrasion, and weak chemicals
8000T Ultra-Tuff Tag	Thermal transfer Valéron polyethylene	NA	Outdoor tag available in 7 and 9.5 mil thicknesses. Tag can be wired or stapled onto product.	Resistant to moisture, abrasion and weak to moderate chemicals
8000T Light-Weight Tag	Thermal transfer V-Max polyolefin tag	NA	Outdoor tag ideal for greenhouse and nursery use; lasts outdoors for 1-2 years	Outdoor tag ideal for greenhouse and nursery use; lasts outdoors for 1-2 years