



ECO-TIE™

HIGH PERFORMANCE, BIODEGRADABLE TIE

Biodegradability

Eco-Tie™ is based on compostable materials that are certified for commercial compostability by BPI (International Biodegradable Products Institute) and Din Certco (IBAW mark) per ASTM D 6400, offering consumers confidence that Eco-Tie™ will biodegrade rapidly and safely when disposed of properly. When Eco-Tie™ is disposed of in commercial composting environments, it is directly consumed by microorganisms and converted naturally into carbon dioxide and water, typically within 45-60 days. When disposed of in soil, the rate of biodegradation rate is dependent on the soil content and conditions such as temperature and moisture, but typically occurs in 60-365 days.

Application & Use

Eco-Tie™ is specifically designed to meet the demands (strength, usability, convenience) of agricultural companies such as vineyards and nurseries. The most common application is to use Eco-Tie™ to support young plants and samplings during the initial growth periods of several months to several years. By using Eco-Tie™ to secure young plants to stakes, fences or similar structures, the stems are less susceptible to environmental damage. Additionally, Eco-Tie™ can be effectively utilized to direct growth patterns for all types of plants or as an alternative tie/closure mechanism for shipments and packaging of all sorts.

Shelf Life & Useful Life

Until exposed to microorganisms or similar environments, Eco-Tie™ will remain stable. When in use, Eco-Tie™ will remain strong and usable until exposed to microorganisms, excessive heat, or excessive UV exposure. Moisture and heat alone will not degrade Eco-Tie™ under most conditions. However since moisture and heat allow microorganisms to become more active, these factors can indirectly reduce the shelf life and useful life.

Product Description

Eco-Tie™ is a high-strength, completely biodegradable/compostable (per ASTM 6400 standards) alternative to twine and metallic/plastic ties used in agricultural and industrial markets. Unlike metallic and plastic ties, Eco-Tie™ will biodegrade rapidly when exposed to other organic materials, but will retain strength while in use. This unique and proprietary technology was designed specifically for vineyards where the grape plants are tied to metal wire and fences during their growing cycle. By using Eco-Tie™, wine producers are able to further minimize the environmental impact of their production.

Technical Description

Eco-Tie™ is a proprietary blend of polyesters, which originate from alcohols and acids. The polyesters in Eco-Tie™ are specifically engineered to be directly consumed by microorganisms when they are placed in direct contact with soil or compost. When Eco-Tie™ is in use, it typically is not in direct contact, therefore biodegradation will only begin when it is disposed or discarded.

Construction and Availability

Standard Eco-Tie™ is supplied on spools and is a single strand of compostable plastic. Custom runs are possible with up to 3-prong strands of any length. Elasticity and strength can also be modified to meet various customer demands.

FOR INDUSTRIAL USE ONLY
KEEP OUT OF REACH OF CHILDREN
NOT FOR INTERNAL CONSUMPTION
CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

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