

A curved wooden deck with a railing, decorated with colorful pillows and potted plants. The deck is made of dark brown wood and has a matching wooden railing with vertical balusters. Several colorful pillows (yellow, green, red, and floral) are placed on the deck. There are also several potted plants with red flowers and green foliage. The background is white.

Trex Plastic Bag, Film and Wrap Recycling Program

Carolina Recycling Association Conference

March 28, 2017

About Trex Company



- Trex Company is the world's largest manufacturer of high performance wood alternative decking and railing, with more than 20 years experience
- A former division of Mobil Corporation, the company was formed by four Mobil executives in 1996 and went public in 1999
- Trex Company Headquarters, Research and Development, and Production Plant are located in Winchester, VA. A second plant opened in Fernley, NV in July 1999



Outdoor Product Portfolio



Transcend®



Pergola



Lighting



Elevations®



Railing

Benefits of Trex®



Trex is a high performance material offering a complete outdoor package

Complete outdoor system:

- Decking and Porch flooring
- Railing
- Steel deck framing
- Deck lighting

Complimentary Accessories:

- Outdoor furniture
- Pergola kits
- Deck outdoor storage
- Deck drainage systems

High Performance Benefits

- Does not crack, split, splinter or rot
- 25 year residential warranty
- Resistant to moisture, insect and sunlight
- Low maintenance
- Environmentally friendly



Ingredients

Trex decking boards are made of 95% recycled content - recycled polyethylene film/packaging and scrap sawdust

- The sawdust is waste wood from flooring and cabinet manufacturers
- The polyethylene film comes from various commercial and community resources
- Trex recycles 400 million pounds of reclaimed sawdust and polyethylene film each year



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Trex Spartan™ and Cardinal™ LLDPE Pellets



Trex's newest innovation LLDEP pellets from 100% post-consumer film

- Two grades:
 - **Spartan:** Best suited fore profile extrusion and profile molding
 - **Cardinal:** advance applications such as blown film, plastic bags and tubing
- Both grades are ICC Certified
 - 100% recycled materials, and no virgin plastic or industrial films





Recycling Facts

- There are 140,000 of postconsumer plastics (film, bags & wraps) in a 500 sq. ft. Trex deck
- Over 200 million pounds per year of stretch film, consumer films, bags and wraps are collected to manufacture Trex products each year
- In the past 10 years, Trex has recycled over 2.5 billion pounds of polyethylene films
- Trex recycles over 50 millions pounds per year of post consumer bags, wraps and films collected at North American Retailers
- 10,000+ collection across North America
- Over 600 school and community programs



Commercial Polyethylene Film Recycling Streams



Post Commercial

- All current distribution, manufacturing, retail, and grocery polyethylene film mix (labels, foam, bubble wrap, tape)
- All 100% polyethylene scrap (loose film, bales, purge, all colors)



Post Consumer

- All scrap collected via polyethylene specific “at-store” collection programs (retail, grocery, other)



Trex Recycling Promotion

Communicate, Collect, Consolidate



- **Communicate – Who can promote the recycling of plastic film & bag?**
 - Recyclers
 - Film and Bag Manufacturers
 - Retailers
 - Schools
 - Recycling Coordinators
 - Municipalities
 - Trade Associations
 - Environmental Groups
 - Legislators
 - General Public
- **Collect - Where can we collect and capture bags & films for recycling?**
 - Retailers / Shopping Centers
 - Grocers
 - Municipal Recycling Centers
 - Schools
 - Offices
- **Consolidate – What are the best locations for bag & film recycling consolidation?**
 - Distribution Centers
 - Recyclers
 - Municipal Consolidation Programs



School Film Recycling Challenge



- The school recycling program began in 2006
- The objective of the 'Challenge' is to:
 - Educate students on the importance of recycling
 - Keep plastic out of the landfills
- Over 500 schools participate across the US and in Canada

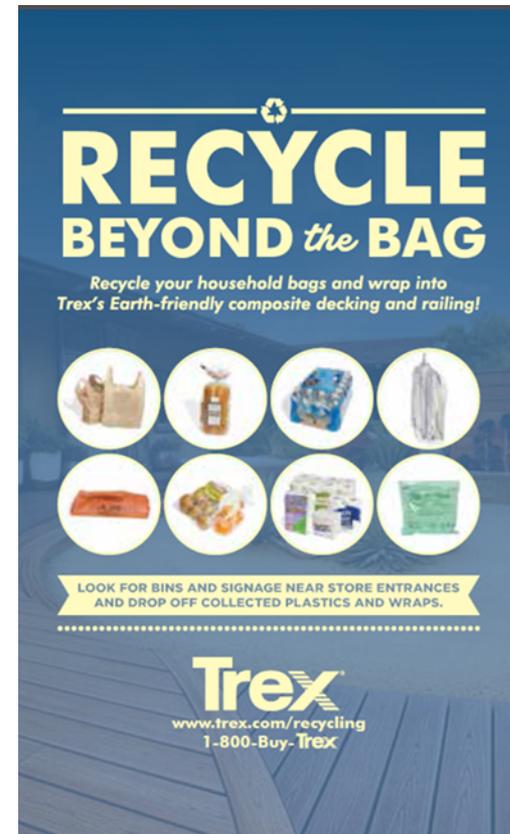


Bench awarded to winning schools

Plastic Film Recycling Challenge



- The 'Challenge' begins on America Recycles Day (Nov 15) and ends on Earth Day (April 22)
- Regional competitions are held to collect plastic bags to recycle with Trex
- Trex provides schools with recycling bins, a poster and magnets
- The winning schools are awarded a bench made from Trex and each participating school receives a Trex planter box
- 600+ schools participated nationwide and 175 schools in Manitoba, Canada



Example of magnet and poster provided to schools

Other Promotion:

Trex's Material Source Group exhibits at many trade organizations to promote film recycling



Member of Flexible Film Recycling Group (FRRG) - The American Chemistry Council (ACC)



- Primary goal is to double retail bag recycling rate in 5 years
 - Nationally more than 1 billion lbs. of retail bags & wrappings were recycled in 2011
 - Up 55% from 2005
 - *Source: Moore Recycling Associates, Sonoma, CA; 2011 Plastic Film Recycling Collection: National Research Study
- The How?
 - Education & outreach programs
 - Milwaukee, WI
 - Vancouver, WA
 - North Carolina
 - Connecticut
 - Alameda, CA
 - Program development & support



plasticfilmrecycling.org

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Home Find A Drop Off Location Set Up Recovery Help Your Community Add Your Locations Get Listed



What's New

Plastic Film Recycling on College Campuses

Plastic film was just added as a new category for 2013 *Recyclemania*. The goal is to raise awareness of the opportunity to recover more recyclables and encourage more colleges to set up recovery programs. You can find case studies of colleges with film recycling programs already in place by visiting the [Success Stories](#).



The How2Recycle Label

The How2Recycle Label was created to provide consistent and transparent on-package recycling information.



Packages with the label must follow the Assoc. of Postconsumer Plastic Recyclers' [Design for Recyclability Guidelines™](#)

Learn more about the How2Recycle label

- Designing a new film package or product?
- Seeking a credible recycling label?
- Visit the [How2Recycle.info](#) website

National Reach Study

Labels are being used according to latest Reach Study data. [View report >](#)

Find a Drop Off Location

Return clean, dry, empty plastic bags and film to recycling drop off locations in your area.

Enter your zip code [Find](#)

[Learn What To Recycle >](#)



Set Up Recovery

We've developed tools to help you set up an efficient plastic film recovery program.

- Learn what's recyclable
- Calculate the benefits of recycling
- Find recyclers
- Design your collection strategy
- View sample market specifications
- Download FREE signage

Help Your Community

Learn about available tools and resources to facilitate film and bag recovery in your community.

- Download FREE signage
- List local Drop Offs
- Include local Recycling Service Providers
- Check out Curbside Value Partnership tools
- Find out about Re-TIAC

Add Your Locations

Place recycling bins in well-marked locations and let consumers know they can recycle plastic film at your stores.

- Add your company to our list of participating stores
- Download FREE signage to instruct consumers about materials to recycle with shopping bags

Get Listed

Connect with businesses and other commercial generators of plastic scrap film by listing in our [Recycler Directory](#).

- List in [The Recycler Directory](#) so others can find you
- Download FREE Recycler Posters
- Find markets for truckload quantities

plasticfilmrecycling.org

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Home Find A Drop Off Location Set Up a Collection Program Facilitate Bag and Film Recycling Add Your Locations Get Listed

Find a Drop Off Location

Search the Drop Off Directory

Enter your zipcode below to find retail stores, municipal recycling centers and private recyclers in your area who accept plastic bags and film packaging.

Enter your zip code [Find Locations](#)

Please note what your drop off location accepts at their location.



What to bring to your local drop-off center

Retail Bags



Newspaper Bags



Produce Bags



Case Wrap (e.g. snacks, beverage cases)



Bread Bags



Napkins, Paper Towel, Bathroom Tissue and Diaper Wrap (packaging)



Dry Cleaning



Air Pillows



Please recycle only clean, dry plastic bags and film. Remove receipts or any other items from bags*

- Furniture wrap
- Electronic wrap
- Plastic retail bags (card protectors and other forms)
- Plastic food storage bags (clean and dry) - (e.g. Ziploc® bags)
- Plastic cereal box liners (if it does not have a dry seal do not include)
- Tyvek® (used or not) or other synthetic shopping envelopes, bubble wrap, and air pillows (non-inflatable) unless if accepted
- Clear wrap (e.g. snacks, water bottles)
- All clean, dry bags labeled #2 or #4

NOT accepted at drop-off locations:

- NO frozen food bags
- NO prewashed salad mix bags
- NO degradable bags

*Not all items are accepted at all drop-off locations. Please check with your local drop-off location to see what is accepted.

Refrigerator pin up

Download and print out this refrigerator pin for your refrigerator so you always know what to bring to your drop-off center. [Download >](#)

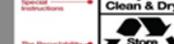
Making Recycling Make Sense.

Variation in recycling programs, unclear labeling, and inaccurate recyclability claims make proper recycling a challenge.

The How2Recycle Label was created to provide consistent and transparent on-package recycling information to consumers. Currently the label only applies to packaging sold in the U.S.

A special version of the label has been created for plastic bags and films that are accepted primarily at retail stores with plastic bags.

Special Instructions



The Recyclability icon

Package Material: **PLASTIC BAGS / FILM / WRAP**

Consumer Facing Website: [how2recycle.info](#)

Visit the [How2Recycle.info](#) website for more information >>>

What happens to the plastic film?



Plastic bags are recycled into many different products. Most plastic bags are recycled into composite lumber but can also be reprocessed into small pellets, or post consumer resin, which can become feed stock for a variety of products such as new bags, pallets, containers, crates, and pipe.



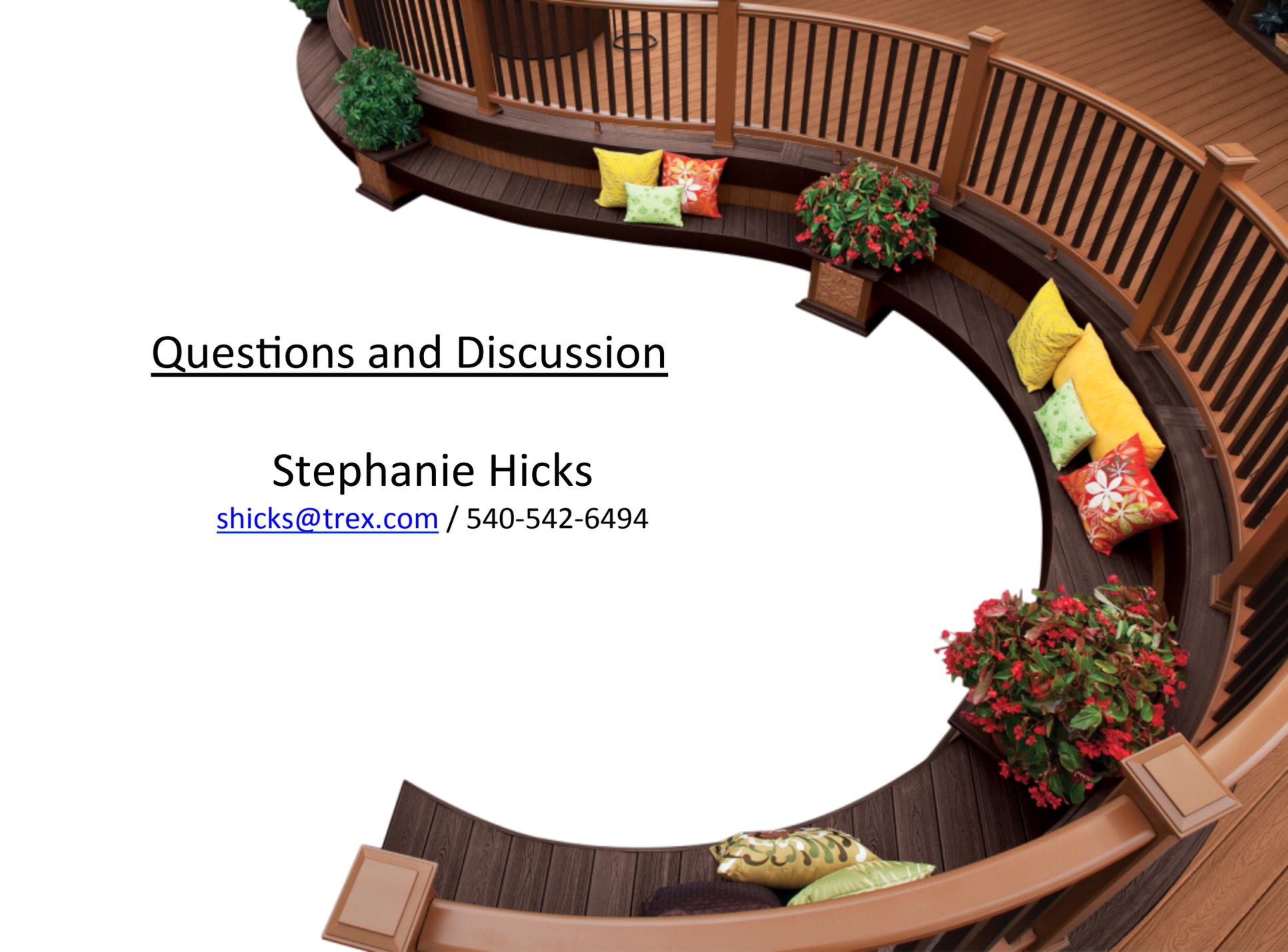
Success Stories | General Public | Businesses with Scrap Film | Local Government | Retailers and Dry Cleaners | Recycling Service Providers

This site is administered by [Moore Recycling Associates, Inc.](#) through support from the American Chemistry Council. The purpose of this site is to educate the general public, municipalities, and businesses about how to recycle postconsumer and postindustrial polyethylene film that is found in virtually every business and household. Our goal is to increase the quality and quantity of recycled film, which also fosters growth in our domestic reclamation industry. We strongly believe in the efficacy of the waste reduction hierarchy REDUCE, REUSE, and RECYCLE. We welcome your comments and feedback. ([mailto:info@plasticfilmrecycling.org](#))

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Trex offers partnership with American Chemistry Council – WRAP & How 2 Recycle Label Campaigns



A curved wooden deck with a railing, decorated with colorful pillows and potted plants. The deck is made of dark brown wood and has a curved railing with vertical balusters. There are several potted plants with red flowers and green foliage. The deck is set against a white background.

Questions and Discussion

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