



# **Environment Innovation** **T-MAX<sup>®</sup>**

**Polyester Acoustic Panels**  
**by HUEINTEK Inc.**

# T-MAX®

was born from the willingness  
that building materials  
should be  
Eco-friendly, Safe and Functional.

## OVERVIEW

We, Hueintek Inc., manufacture a wide range of products in sound absorption and insulation. We have been committed to focus on saving energy and clean environment since 2003. We are leading polyester sound absorption material markets and keep developing innovative, high-quality acoustic products to meet customers' needs.

## T-MAX®

With our aim of "Environment Innovation", we invented and launched T-MAX® sound absorption and insulation made from 100% recyclable polyester which are designed to reduce noise and reverberated sound. It reduces and controls reverberated noise in shared environments, making it ideal for use in a variety of commercial interior spaces including workplace, education and hospitality environments. T-MAX® is the high-quality and high-performance choice. It is durable yet flexible, easy to cut, easy to install and lightweight.

## ACOUSTIC AWARENESS

People ultimately want to feel comfortable in their environments, no matter whether they're in a professional auditory space, the workplace, in a learning environment, having dinner with friends at a restaurant or spending time at home. Controlling unwanted sounds is a crucial factor in creating comfortable and productive environments.

## ENVIRONMENTAL AWARENESS

T-MAX® is dedicated to the environment. Aside from saving tones of plastic waste from our oceans and landfill, the PET is converted into T-MAX® which is still 100% recyclable. It represents eco-innovation in the truest sense: its highly recyclable nature and use of post-consumer waste sourced from recycled PET bottles to create a superior material, means that T-MAX® is a prime product of up-cycling.



# ENVIRONMENTAL RESPONSIBILITY

T-MAX® is an environmentally friendly acoustic product made from thermally bonded recycled polyester fibers. T-MAX® contains NO adhesives, paints, coatings, VOC's, formaldehyde, itchy particles, wood, agricultural or paper products.

## PUBLICLY DISCLOSED HEALTH PRODUCT DECLARATION

T-MAX® has a Green Guard Gold Certificate to support HPD's for LEED projects. It is located on the product section of the website or provided upon request.

## NO PAINTS, COATINGS, ADHESIVES AND SEALANTS

NO paints, coatings, adhesives or sealants are used to manufacture T-MAX®, it is thermally bonded.

Material Name	Polyester
CAS Number	25038-59-9
Proportion	100%
Contains 0.0 VOC's	

## SOURCING OF RAW MATERIALS

The recycled polyester comes from PET plastic pellets which are sourced from a variety of locations near our factory and vary depending on availability.

## RECYCLED CONTENT

The recycled content varies depending on the availability of recycled PET pellets. The recycled content range is between 60% – 90% depending on product and color.

## OTHER ECOLOGICAL INFORMATION

T-MAX® does not contain any ozone depleting chemicals and is not classified as a hazardous air pollutant.

# Environment Innovation







T-MAX® IS

- Eco-friendly and 100% recyclable
- Class A Fire-Resistant
- Resistant to moisture
- Excellent acoustic performance
- Available in a wide range of colors
- Custom color available
- Highly durable providing long-term stability and performance
- Light-weight and easy to handle
- Manufactured under ISO 9001 and ISO 14001 Quality and Environmental Management Systems
- Low Cost
- VOC Free
- Fungi Resistance

*\* Available for customizing orders in density, thickness and dimension.*

USES

- Office Buildings
- Industrial / Manufacturing
- Government
- Theaters & Studios
- Stadiums
- Retail Establishments
- Gymnasiums
- Healthcare
- Public Spaces
- Natatoriums
- Restaurants
- Schools
- Universities

NRC

Standard Thickness	Noise Reduction Co-Efficient (NRC)
3/8"	0.32
1/2"	0.40
1"	0.70
2"	0.95



COMPARISON - T-MAX® vs TRADITIONAL MATERIALS

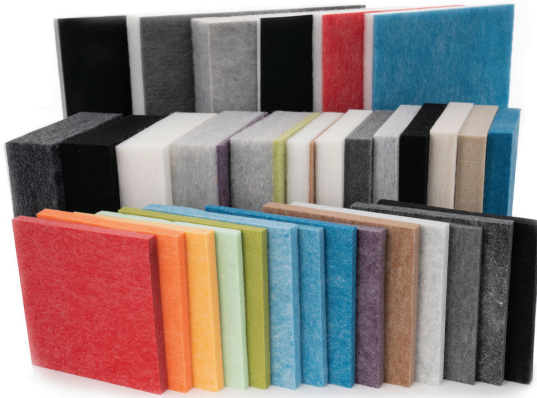
Classifications	T-MAX® (Polyester)	Glass fiber	Rock wool	Urethane foam	Polystyrene
Recycle	Easy recycling and incineration. No micro particles generated.	Difficult to reuse and incineration			
Hazardous Nature	Harmless to human body. (Using materials for clothes)	Harmful to human body for prolonged use.	Toxic gas generated upon burning.		
Water drainage & Absorptiveness	Superior tensile strength and Cohesiveness; Short draining time and sustainable sound absorption without deformation.	Decreased sound absorption and heat insulation due to prolonged water drainage. Deformation occurs.	Close cell structure		
Heat Resistance	Self-extinguishing without the flame due to an organic material.	Semi-non combustible due to an inorganic material	Frail to heat	Very frail to heat	
Weather Resistance	Weathering does not occur even in case of prolonged exposure to air due to strong cohesiveness	Weathering occurs in case of prolonged exposure to air	Almost unchange-able shape	Heat insulation will fade over time	
Environmentality	No Air pollution due to rare arsenic acid by weathering	Air pollution generated because of arsenic acid by weathering			Dispersed





PRODUCT TYPE

- T-BOARD
- T-MAX DOUBLE
- FABRIC LAMINATED T-MAX DOUBLE



COLOR PALETTE

T-MAX® is available in a comprehensive range of neutral and vibrant colors. Colors shown are for reference only, please contact us for a sample prior to ordering.



Light Beige, Orange, Purple, Yellow, Melon, Berry, Sky Blue, Blue, Grape, Pink, Dark Green, Red, Lime, Green, Black, White, Tan, Light Grey, Grey, Dark grey

CERTIFICATIONS



UL GREENGUARD GOLD



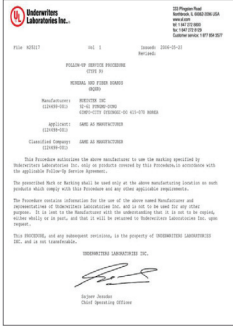
ISO 14001



ISO 9001



EPD



UL MARK



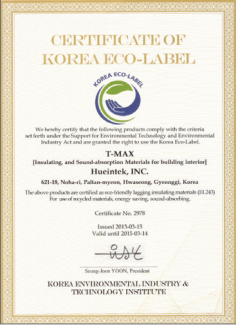
EU TUV REACH



Good Recycled Product



Environmental Building Material

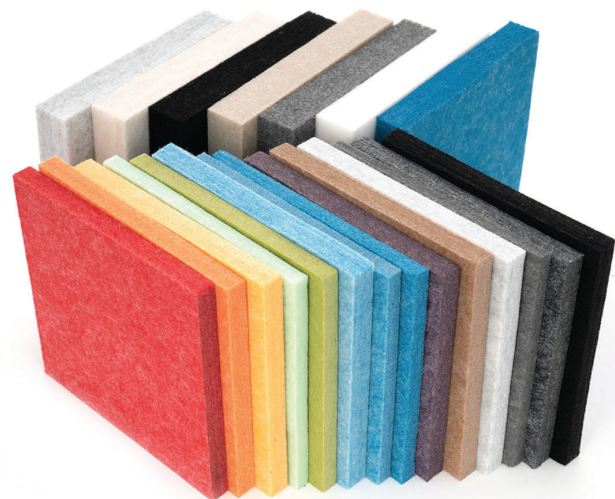


Korea Eco Label

Reference Link  
<http://www.ecotmax.com/eng/company/certificates.php>



# T-BOARD



## SPECIFICATIONS

Density	80 ~ 280 kg/m <sup>3</sup>	5 ~ 18 pcf
Thickness	3 ~ 25 mm	3 ~ 25 T
Standard Width	1,220 mm	48"
Standard Length	2,440 mm	96"

*\* Available for customizing orders in density, thickness and dimension.*

## USAGE

Most commonly selected for tackable surfaces as a lower cost solution replacing cork and fabric wrapped panels.

Ideal for:

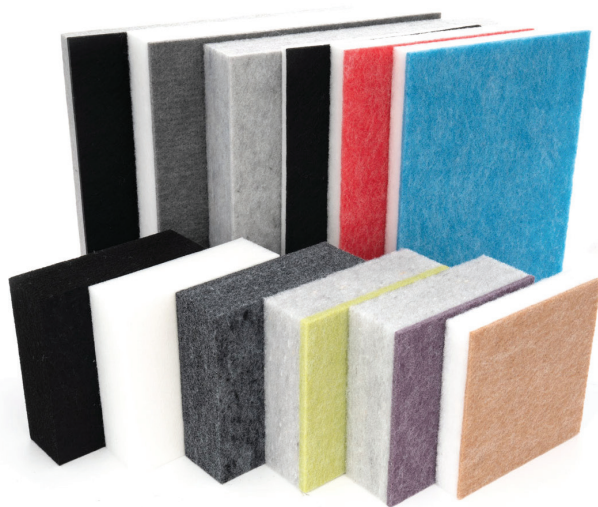
- Industrial / Manufacturing
- Auditoriums
- Universities
- Natatoriums
- Sound Rooms
- Restaurants
- Offices
- Gymnasiums
- Retail Spaces
- Schools

## KEY FEATURES & BENEFITS

- Fire resistant (EN 13501-1, B-s1, d0 / ASTM E84, Class A)
- Available in a wide range of colors
- Excellent acoustic performance
- Naturally resistant to moisture
- Light-weight and easy to handle and install
- Made from 100% polyester fiber without chemical binders
- Highly durable providing long-term stability and performance
- Safe, non-toxic, non-irritant and non-allergenic
- Manufactured under ISO9001 and ISO14001 accredited Quality and Environmental Systems



# T-MAX DOUBLE



## SPECIFICATIONS

Density	40 ~ 80 kg/m³	3 ~ 5 pcf
Thickness	10 ~ 140 mm	10 ~ 140 T
Standard Width	1,220 mm	48"
Standard Length	2,440 mm	96"

\* Available for customizing orders in density, thickness and dimension.  
\* Maximum Thickness is 140mm for White and 100mm for other colors.

## USAGE

It is ideal for absorbing voice ranges. Use for baffles and unique sound absorption requirements.

- Industrial / Manufacturing
  - Natatoriums
  - Offices
  - Schools
- Auditoriums
  - Sound Rooms
  - Gymnasiums
- Universities
  - Restaurants
  - Retail Spaces

## KEY FEATURES & BENEFITS

- Fire resistant (EN 13501-1, B-s1, d0 / ASTM E84, Class A)
- Creative control with both colored and classic white or grey facing
- Excellent acoustic performance
- Naturally resistant to moisture
- Light-weight and easy to handle and install
- Made from 100% polyester fiber without chemical binders
- Highly durable providing long-term stability and performance
- Safe, non-toxic, non-irritant and non-allergenic
- Manufactured under ISO9001 and ISO14001 accredited Quality and Environmental Systems





FABRIC  
LAMINATED

T-MAX  
BOARD &  
DOUBLE



Fabric laminating is available for both T-BOARD and T-MAX DOUBLE.

USAGE

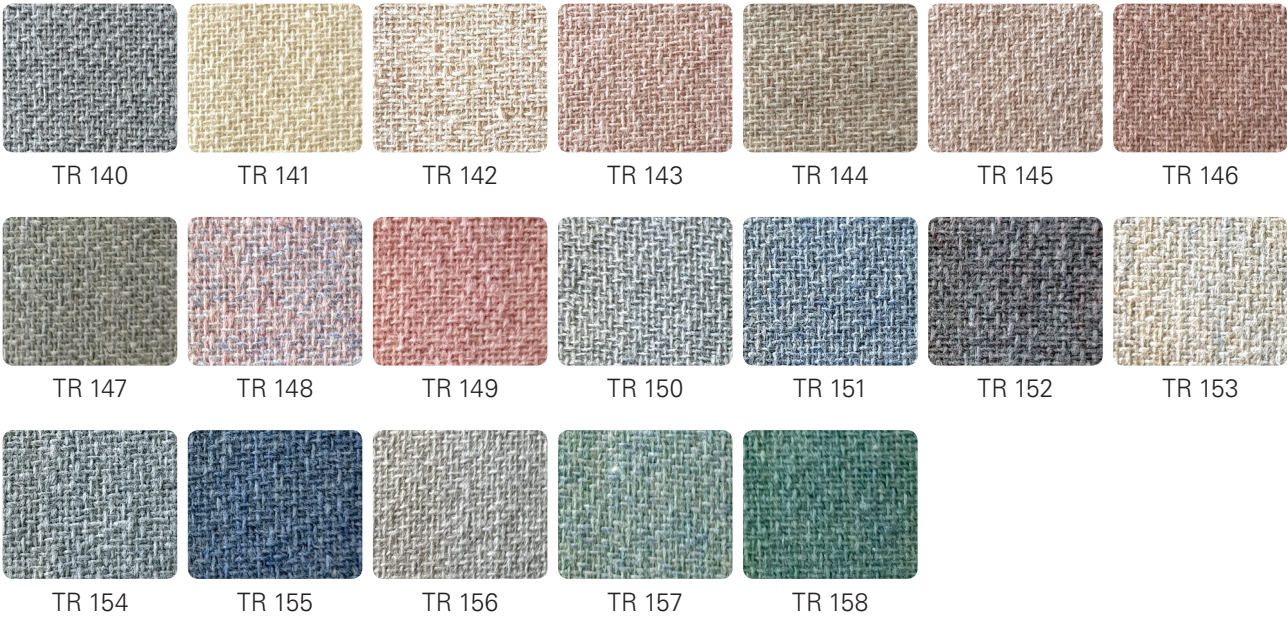
It is ideal for absorbing voice ranges. Use for interior purpose along with unique sound absorption requirements.

- Industrial / Manufacturing
  - Natatoriums
  - Offices
  - Schools
- Auditoriums
  - Sound Rooms
  - Gymnasiums
- Universities
  - Restaurants
  - Retail Spaces

KEY FEATURES & BENEFITS

- Available in a wide range of fabric choices.
- Surface fabrics can be easily changed
- Fire resistant (EN 13501-1, B-s1, d0 / ASTM E84, Class A)
- Excellent acoustic performance
- Light-weight and easy to handle and install
- Made from 100% polyester fiber without chemical binders
- Highly durable providing long-term stability and performance
- Safe, non-toxic, non-irritant and non-allergenic
- Manufactured under ISO9001 and ISO14001 accredited Quality and Environmental Systems

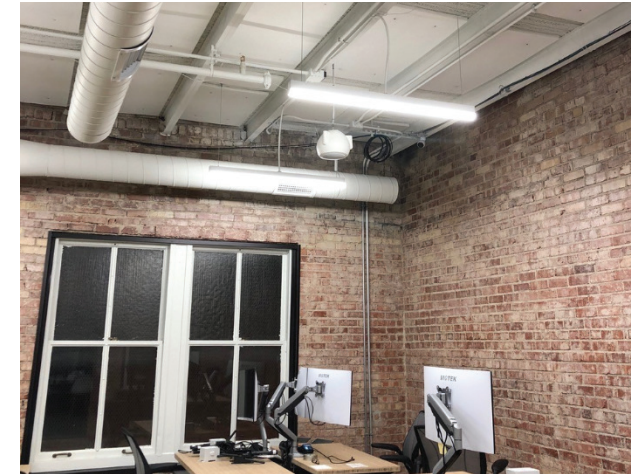
FABRIC OPTIONS – TR100 Series / Resist Printing Fabric





## Applications

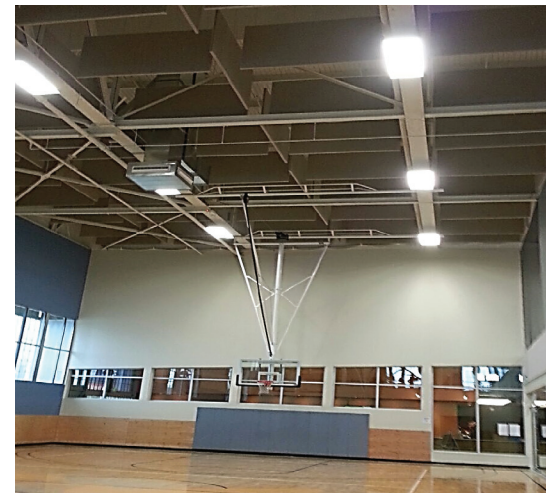
- Office
- Restaurant
- Cafe





## Applications

- Residence
- Public Spaces
- Stadiums
- Gymnasiums





## Applications

- Public Spaces
- Government
- Studios





## Applications

- Schools
- Universities
- Theaters & Studios
- Public Spaces



**T-MAX®**