

PVC INTERLOCKING FLOOR TILES

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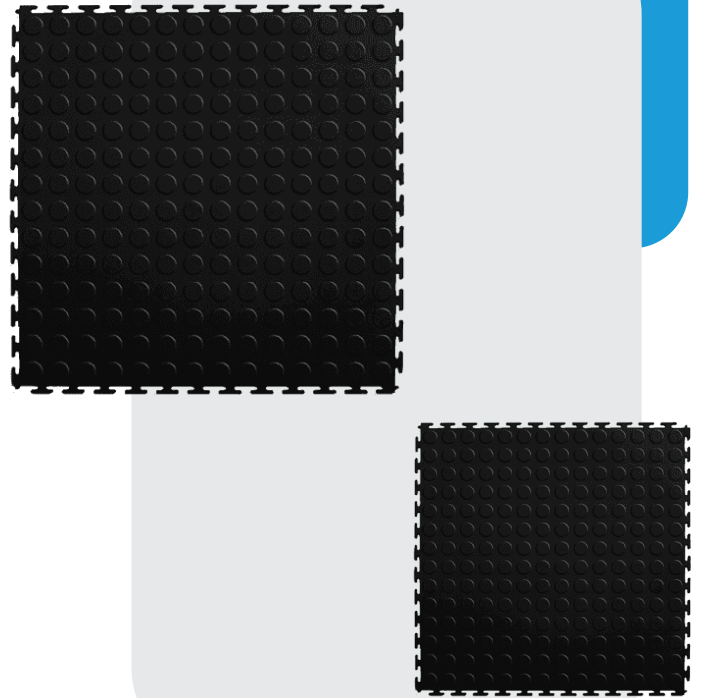
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PVC Interlocking Floor Tiles

Industrial Floor Tiles and Commercial Tiles

While hardwood and ceramic flooring might be the first things that come to mind for many people when they think about industrial or warehouse flooring, interlocking PVC floor tiles are a great option for these types of settings.

PVC floor tiles are perfect for industries and warehouses because they are extremely durable, can withstand heavy traffic, and are easy to install and maintain. PVC tiles are also slip-resistant and fire-resistant, making them a safe option for industrial and commercial settings. PVC floor tiles are available in a variety of colors and styles so that you can find the perfect look for your business.



What are

Inter-locking PVC Floor Tiles?

Tiepro floor tiles are made from high-quality PVC material and come with a locking mechanism. This makes them ideal for use in a variety of settings, including both commercial and residential spaces. The raw materials are sourced from top manufacturers and processed after following several quality checks. We make sure all the tiles manufactured at our facilities are thoroughly inspected and sent out after passing all testing procedures.

Benefits of Industrial Interlocking PVC Floor Tiles

Interlocking PVC floor tiles offer many benefits over traditional flooring options. They are specifically designed for heavy-duty usage considering all the technical and aesthetic aspects like the movement of pallet trucks and forklifts.

Some of the salient features of Tiepro Interlocking PVC tiles are:



Easy to Install: You do not require adhesive, allowing you to set it up yourself efficiently



Designed for use in heavy industrial environments, including pallet trucks and forklifts.



The strong locking mechanism ensures the tiles stay together firmly.



High Mechanical resistance to wear and tear



Fire Resistant



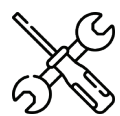
Resistant to acids and other chemicals



Premium and Pleasing Appearance



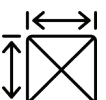
Color Options: A variety of shades to choose from as per the customer's needs



Low maintenance, Easy to replace even a single piece.

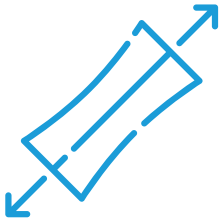
PVC

Made from high-quality 100 % Virgin PVC material



Available in various sizes for best utilization as per available space.

Technical Strength Parameters

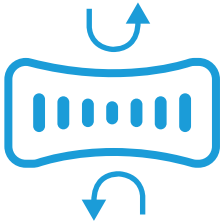


TENSILE STRENGTH:

The maximum load that tiles support without fracture when being stretched.

- *Test Method: ASTM D638*
- *Tensile Strength (Min): 14.5 N/mm²*
- *Elongation at Break (Min): 190 %*

HARDNESS:

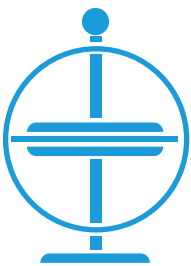


The hardness of any material is its ability to resist deformation. This range is determined considering static load, dynamic load, temperature, movement, etc.

- *Hardness range: 70 Shore A to 95 Shore A*
- *Test Method: ASTM D 695-16.*

Hardness is determined as per the area of application and parameters like footfall and vehicle movement.

SPECIFIC GRAVITY:



Specific gravity is defined as the ratio of the density of a substance to the density of a reference substance, such as water. Higher the specific gravity, higher is the density of material.

- *Range of Sp. Gravity of Tiepro Floor tile: 1.15 to 1.46*

This makes the tiles suitable for different applications. As some applications need tiles with higher Sp gravity, thus higher weight making it suitable for heavy duty applications.

LIMITED OXYGEN INDEX:

The limiting oxygen index (LOI) is the minimum concentration of oxygen, expressed as a percentage, that will support the combustion of a polymer. Its exact utility is to decide if the object will catch fire easily or resist it.

- Test Method: ASTM D2863
- LOI for Interlocking Floor Tiles: 32%

The higher the LOI of a polymer, the lower is the heat flux by its flame and thus higher flame retardant. Tiles are made fire retardant to suit vast applications.

AESTHETICALLY APPEALING AND STURDY USE:

PVC interlocking industrial floor tiles are an ideal mixture of beauty with toughness. They come in glossy finish and matte finish that can make any space look more polished and professional while also being incredibly durable.

MULTIPLE COLOR OPTIONS:

Color can be a big factor in consumer choice. It allows consumers to choose the color that they like best or that goes best with their style. Considering this, we offer multiple shades to choose from, so it can be blended as per customer's requirement.

- Wide Range of Color Options
- Easily Blends in various Décor



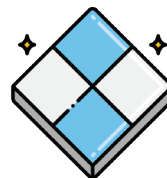
And Many More....

SURFACE FINISH:

- Anti-Slip Surface



- Surface Finish gives a Unique Appearance to Tiles



EN45545-2:2020 COMPLIANCE

- Railway manufacturing standards EN45545-2 were developed to improve rail vehicle security. All materials used in the production of rail vehicles must comply with EN45545-2, to achieve the highest level of safety possible in the event of a fire.
- Tiepro interlocking floor tiles comply with R10 HL1 of EN 45545-2:2020.

6. CONFORMITY

Tested specimen meet the requirements of **R10 HL1** category of EN 45545-2:2020.

Parameter	Test Method	Requirement as per R10 HL1 Category of EN 45545-2:2020	Observed Result	Conformity (Confirm/Do not confirm)
CHF (kW/m ²)	T04 (EN ISO 9239-1)	Minimum 4.5	≥11	Confirm
D _s Max	T10.03 (EN ISO 5659-2: 25 kW/m ²)	Maximum 600	476.5	Confirm
CIT _g	T11.02(EN 17084 Method 1: 25 kW/m ²)	Maximum 1.2	0.42	Confirm

Classification Achieved:

R10 HL1 of EN 45545-2:2020

ROHS/REACH COMPLIANCE

Tiles are LEAD-FREE and ROHS Compliant

Sr. No.	Test Name	Unit	Result	Specification	Method of Test
	Description	NA	Black Coloured, Small Piece Rubber	Black Coloured, Small Piece Rubber	As Per In-House
	Lead [Pb] (By/ICPMS)	Ppm	0.007	NMT5	As Per In-House

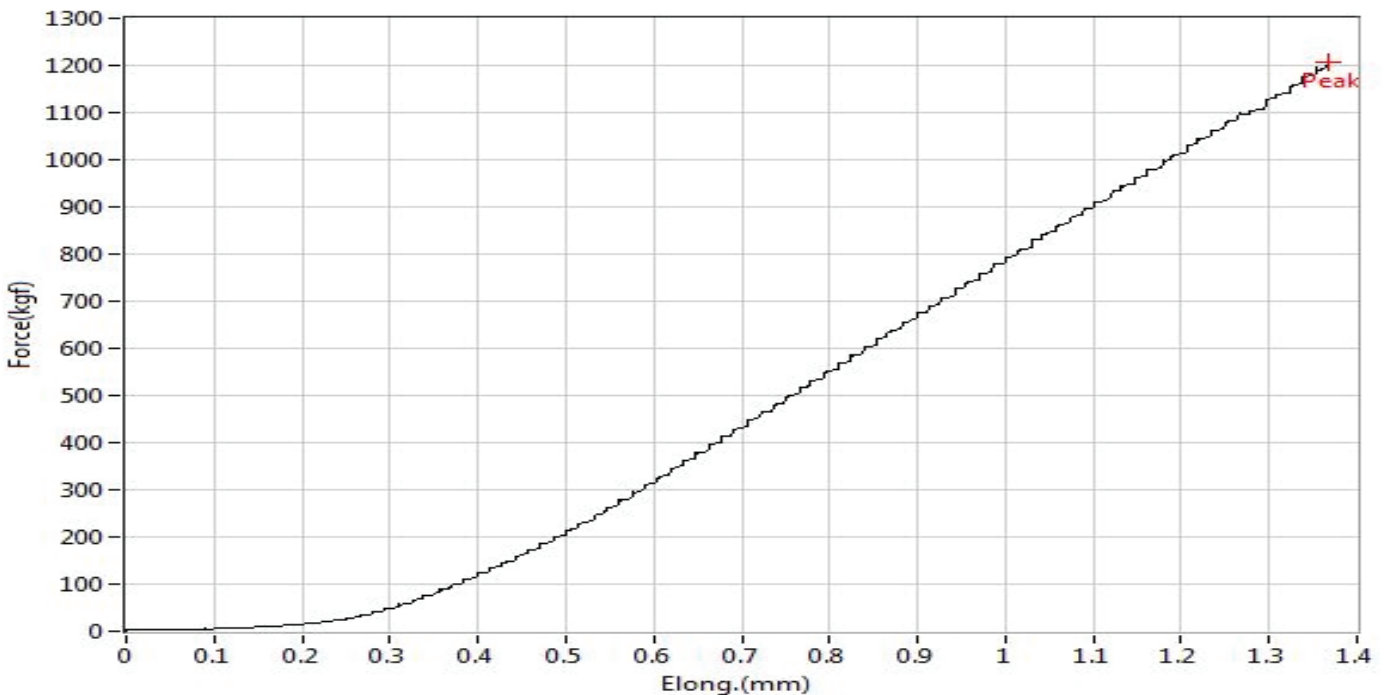
LOAD BEARING CAPACITY

Tiepro Tiles are designed for heavy load and high traffic areas. Tests are done to check the load it withstands at 10% deformation and 30% deformation.

- Test Method: ASTM D 695-1
- Test Property: Compressive Load Test
- Test Specimen Size: 100mm x 100mm (Our standard tile size is 420mm x 420mm)
- Test Result at 30% Compression (Elastic Deformation): 1555 kg
- Test Result at 10% Compression (Elastic Deformation): 310 Kg

Test Result

	Test Property	Unit	Test Method	Test Value
PVC tiles	Compressive load (at 10% deformation- 0.6mm & on 100mmX100 tile)	kg	ASTM D 695-16	310



The decision rule applied for statement of conformity, for borderline result, considering the uncertainty of measurement is: NOT APPLICABLE. Opinion & interpretation for this report: NOT APPLICABLE

Applications



INDUSTRIAL

- Factory / Manufacturing Area
- Assembly Line
- Shop Floor / Maintenance Department



WAREHOUSE

- Designed for pallet movements
- Easy movement of forklifts
- Multiple Heavy Machines can easily work with Flooring
- Can Shift Materials of Different Load without Causing Damage
- Easy to Clean
- Neat & Tidy Appearance
- No Floor Humidity



GARAGES

- Good Load Bearing Capacity
- Easy to clean Oil and grease
- Anti-Skid Property
- Chemical Resistant
- Single piece Replacement



COMMERCIAL SPACES

- Easy To Maintain
- Designed for Heavy duty usage
- UV Resistant
- No Color Fade



SCHOOLS

- Avoids Slip Accidents
- Children Can Play without worrying
- Safe Flooring for Kids
- Lead Free Tiles ensuring the safety of children



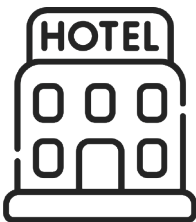
GYMS

- Resistant to weight accidents
- Gives a superior grip to workout sessions
- Easy to Clean Frequently



HOSPITALS

- Hygienic Flooring
- Can be Cleaned Frequently
- No Stains on Chemicals Spillage
- Lead-Free ensuring safety for patients



HOTELS

- Great Aesthetic Value
- Longer Shelf Life
- Easy Maintenance
- Cost Effective

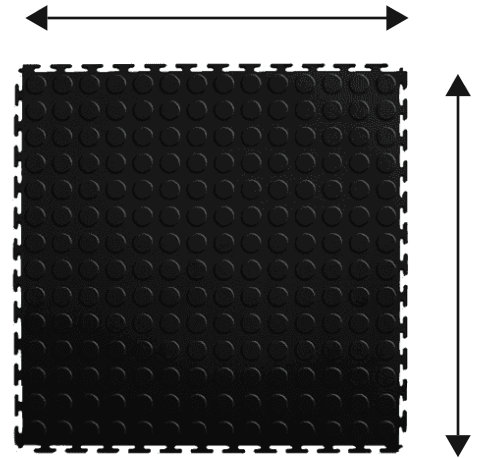


GARDENS

- Safety from Accidents
- Convenient for Walks

Customized Size and Color Options

Although there are various sizes and color options available from our catalog to choose from. But, we also provide a unique option to all our esteemed clients. You can order customized size and color options for Interlocking PVC Floor Tiles.



We believe PVC floor tiles are meant to give our clients optimum aesthetic value without compromising on quality. Thus, we have decided to push our services a notch and enable clients to make changes in color and size as per their choice.

- Order your Choice of Size for Tiles
- Color option of your choice



And Many More....

Passed Through **Multiple** **Laboratory Tests**

There is no reason that you to trust us. Instead, we ask you to go through all the laboratory test results that PVC interlocking floor tiles have proven their strength. Multiple lab tests prove that these floor tiles would perform well even in the most extreme circumstances.

Given the assurance of these lab tests, it becomes easy to decide if they are right for your requirements or not.

TEST REPORTS

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TEST REPORT

No: TR/21-22/1309**Date:** 12/07/2022**Date of receipt:** 08/07/2022**Date of completion:** 11/07/2022**Sample details:** PVC floor tile

Test result

Sample	Test Property	Unit	Test method	Test value
Sample as above	Compressive load (upto 30% deformation)	kg/100cm ²	By axial loading	1555

The provision of data not release the users from their from obligation to conduct their own tests and inspection.



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TEST REPORT

No: TR/22-23/0181

Date: 20/06/22

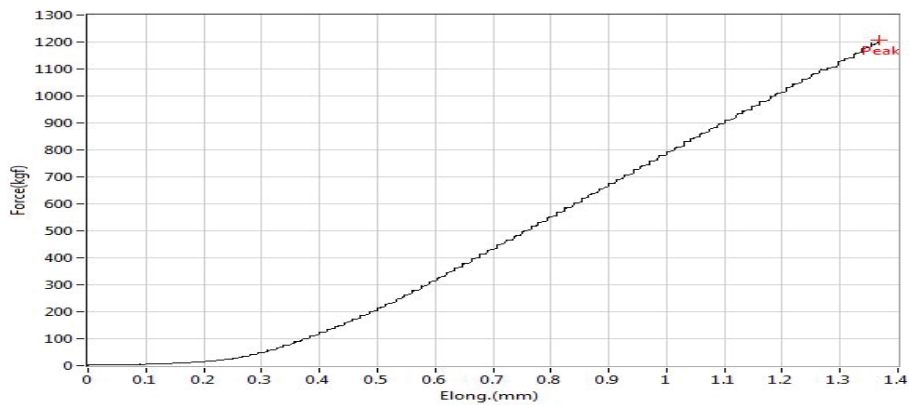
Date of receipt: 17/06/22

Date of performance of testing: 18/06/22 to 18/06/22

Sample details: PVC floor tile

Test result

Sample	Test Property	Unit	Test method	Test value
Sample as above	Compressive load (at 10% deformation- 0.6mm & on 100mmX100mm tile)	kg	ASTM D 695-16	310



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TEST CERTIFICATE

TC Number: 273 (A)/22-23
TC Date: 25-08-2022
Item Name: Floor mat with interlock

CHARACTERISTICS	TEST METHOD	Unit	TEST VAUE
PHYSICAL PROPERTIES			
Specific Gravity	ASTM D792	-	1.36±0.02
Hardness	ASTM D2240	Shore A	94±2
Color Appearance	Visual	-	Op.Black
Surface Finish	Visual	-	Smooth
MECAHNICAL PROPERTIES			
BEFORE AGEING			
Tensile Strength (Min)	ASTM D638	N/mm2	14.5
Elongation at Break(Min)	ASTM D638	%	190
FLAME RETARDENT PROPERTIES			
Limiting oxygen Index-Min (LOI)	ASTM D2863	%	32

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1. INTRODUCTION

Determination of compliance of Floor Mat by perform testings as per various test methods referred by R10 category of EN 45545-2: Requirements for fire behavior of materials and components.

2. TEST METHOD & REFERENCES

EN 45545-5:2020; Requirements for fire behavior of materials and components

ISO 5659-2:2017; Determination of optical density by a single-chamber test

EN ISO92339-1:2010; Determination of burning behavior using radiant heat source.

T10.03 & T11.02 of EN 45545-2:2020; Determination of Conventional Index of Toxicity

3. SPECIMEN DETAIL

The testing laboratory has not been involved in the selection of the specimen.

Name of Product	Floor Mat
Color	Grey
Density	Not Declared
Thickness	5.2mm

4. CONFORMITY

Tested specimen meet the requirements of **R10 HL1** category of EN 45545-2:2020.

Parameter	Test Method	Requirement as per R10 HL1 Category of EN 45545-2:2020	Observed Result	Conformity (Confirm/Do not confirm)
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CIT _g	T11.02(EN 17084 Method 1: 25 kW/m ²)	Maximum 1.2	0.42	Confirm

Classification Achieved:

R10 HL1 of EN 45545-2:2020

5. LIMITATION

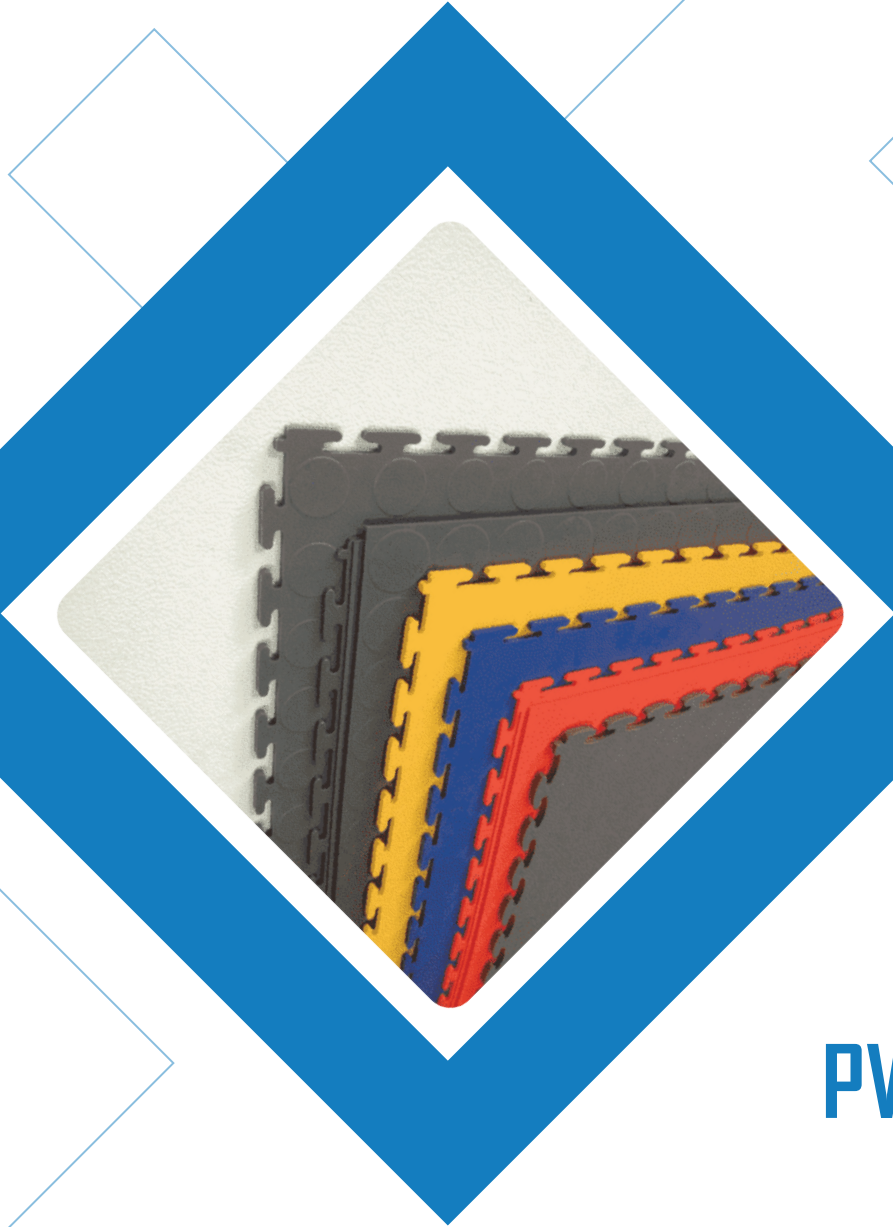
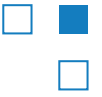
The Results only relate to the behavior of the specimen of the element of construction under the particular conditions of test; they are not intended to be the sole criteria of accessing the potential fire performance of the element in use nor do they reflect the actual behavior in fires.



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