

PL FOAMS



PYARELAL
GROUP OF INDUSTRIES

UP | KERALA | MAHARASHTRA

www.plfoams.in

About Us

Established in 1982 as a manufacturer of Natural Latex & Coir , **PyareLal Group Of Industries** is now a household name in India when it comes to sleep solutions. It combines world-class infrastructure, certified processes and proprietary technology to deliver products of the highest quality, comfort and durability.

Managed by two generations of entrepreneurs, **PL Group** has dynamically evolved with the industry and latest market trends. It doubled its manufacturing capacity and is now the amongst largest manufacturer of rubberised coir & Latex in India, with more than 500 employees. **PL Group** sells eco-friendly and sanitized rubber coir products, which play an important role in the bedding, furniture and seating industries.

PyareLal Group Of Industries, manufactures and sells slab stock Polyurethane (PU) Foam under the brand name '**PL Foams**'. Its technical and industrial foams are supplied to various consumers and converters where as its furniture and mattress grade foams are widely distributed through an extensive supply chain. Adopting the best in technology, '**PL Foams**' product range encompasses everything from regular furniture grade foams to special foams like Memory Foam, Super Soft foam, Low and High Density foam, High Resilience (HR) Foam and Industrial Grade foams.

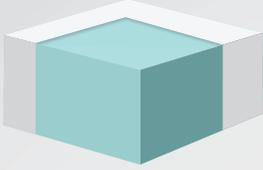
PyareLal Group Of Industries, introduce the Hennecke technology machine from Germany in the industry having manufacturing units spread across three states in India : Uttar Pradesh (UP); Kerala & Maharashtra. It boasts of an elaborately planned manufacturing facility that is equipped with State-of-the-Art machinery.

PL Group currently prides itself in being India's sleep specialist, catering to the needs of one billion who deserve a good night's sleep.

The combination of precise high-pressure metering and a powerful stirrer mixer makes **Hennecke's** continuous slabstock lines the perfect partner in the efficient processing of all commercial materials in almost all density ranges. Through the combination of various technologies exclusive to **Hennecke**, continuous slabstock lines are opening up a variety of prospects for the cost-effective manufacture of high-quality foams of any length, up to 2,500 mm in width and, depending on the foam type and specific density, with a height of up 1,500 mm.

The **Hennecke** systems technology combines the individual advantages of all the well-known concepts for the continuous production of polyurethane slabstock foams and provides the processor with the highest possible quality. Thanks to its individual adaptation to market or environmental requirements, it also offers the highest degree of production flexibility for competitive production results over an extremely long period of time.

Types Of Foams



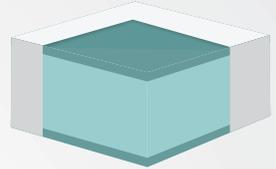
Since about 95% of its cells are open, air is squeezed in and out by body movement, much as you can squeeze water in and out of a sponge. There is no metal to squeak, so breathing action is completely silent

High Resiliency (HR) Foam

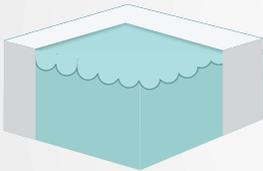


It is used in a wide variety of applications, due to its unique properties.

Tensile Strength foam is used extensively in furniture cushioning applications, because of its structure, which is composed of tightly packed cells which allow air to pass through them when a load is applied, making the furniture more comfortable on which to sit.



Tensile Strength (TS) Foam

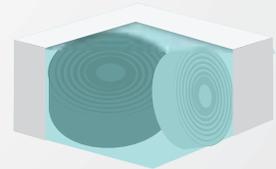


Super Soft Foam

It performs wonderfully as backing for furniture and as extra padding atop mattresses to soften and relieve pressure.



Foam Peeling Machines are used to cut circular slabs of foam rubber into long slices. Being the leading names of the industry, we are engaged in offering a broad series of Peel Foams to our honored customers.



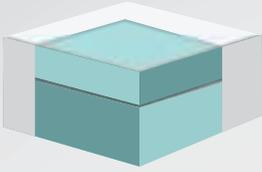
Peel Foam



Rebonded Foam

It is made from a combination of multiple densities of foam which are broken down and re-bonded under mechanical pressure into new blocks of consistent High Density Rebonded Material



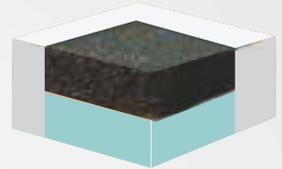


Memory Foam

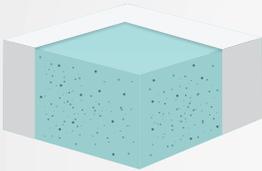
It was introduced in the medical field to cushion, protect and comfort individuals in hospital intensive care units and in wheelchair seat cushions. Dust mites are an unavoidable fact of life. Pretty much every home has them, and one place they thrive is the bedroom. The type of materials used and the dense structure of memory foam discourages dust mites more effectively. There simply aren't as many places for them to live and thrive.



As the Name suggest Fire Retardant foams slow down the fire if any. It has variety of use in market with its unique properties.

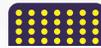


Fire Retardant Foam

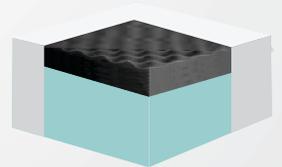


Low Density Foam

It has numerous applications because of its many desirable properties including water-resistance, chemical resistance, energy-absorbance, buoyancy and cushioning characteristics. Compressive strength is greater in denser foams, decreasing as density decreases.



As one of the most versatile materials in existence, foam can be used in a seemingly endless array of applications. When looking for commercial foam, we the best selection of affordable, high-quality solutions to meet the needs of any business.



Convulated Profile Foam



Commercial Foam

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I Coir Mattress I

Coir is a natural fibre extracted from the husk of coconut and our coir mattress are made from it. It is the fibrous material found between the hard, internal shell and the outer coat of a coconut.

The coir mattress is an Indian innovation. Such types of mattresses are available in India alone. We use coconut coir for making these coir mattresses. Yes, they are the most eco-friendly and economical of all the mattresses available on the market.



Natural
Coir



Eco
Friendly



Designed For
Airflow



Added And
Remove Layer

Coir mattresses are made from different layers of foams, depends on the user requirement layers of foam can be added and removed.

These are economical but are comfortable in terms of better support to the spine and easy to maintain plus their life as the mattress is considerably longer.

I Advantages of Coir Mattress I

- They are firm mattresses, therefore, it does not disturb you if your partner has a habit of moving around in bed during sleep.
- The coir mattress has a firm base
- They are economical
- They do not exhibit motion transfer.



Institutional Mattress

PL Foams delivers top graded institutional mattresses all over the world. Our mattresses are suitable for shelters, summer camps, university housing, hospitals, correctional facilities, industrial camps and more. We can fill small or high-volume orders and customize the mattresses to your organization's needs.

Our main objective is to provide comfortable and refreshing sleep to each and every individual without hampering their pockets. So, we give variety to choose from, such as Memory Foam Mattress, Re- Bonded Foam Mattress, Innerspring Mattress, Foam Mattress, etc.

Memory Foam Mattress

- They have an open cell structure that enables the mattress to retain the pressure and remember it even after you come out of the bed. As the mattress remembers the pressure points, it has the name, 'memory foam mattress.'
- The memory foam mattress can give support to both side sleepers and stomach sleepers. Hence, you can also refer to these mattresses as the best mattress for side sleepers.



- This mattress has a high conforming ability quotient as it tends to mould according to the body pressure and spread the weight equally over its surface.
- It is the best mattress for spine pain, shoulder pain as it features state-of-the-art pressure relieving technology to eradicate the building up of pressure on your body.
- The highlight of the memory foam mattress is that it helps maintain the perfect body temperature while you sleep.
- The polyurethane present in the foam protects the mattress from dirt thereby making it free from allergies.
- The memory foam mattresses are perfect for spinal alignment.
- It works on a unique technology whereby it responds to the body temperature accordingly.

Re-Bonded Foam Mattress

Re-bonded foam is reclaimed foam and scrap foam that are glued together under pressure. It is the perfect alternative to the coir mattresses. However, they are better than the coir mattresses because of their compressibility,

cushioning advantage, and energy absorption. The re-bonded foam mattress enables you to get better sleep and refreshment.



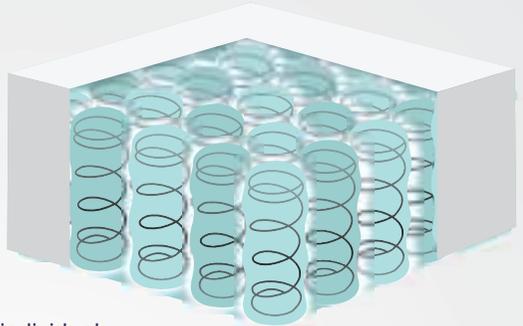
- It is the best mattress for side sleepers with shoulder pain. It provides the additional support to keep the shoulders and spine in natural shape.
- Re-bonded foam mattresses do not have springs, but they provide a similar bounciness.
- Of all the foam mattresses in the market, the re-bonded foam mattress is the least expensive.
- As they use recycled materials to stuff the mattresses, it is an eco-friendly mattress.

Inner Spring Mattress

An innerspring mattress uses a steel coil support system. ... The spring shapes, designs, coil gauge and number of coils in a mattress can vary. The innerspring is covered by padding or upholstery materials, including various foams, fiber and even additional layers of smaller steel springs. The popularity of the spring-based sleeping system is due to its ability to adapt to body contours and maintain correct spinal position while we sleep.

Pocketed Spring

Pocketed Spring mattresses are a newer and a more superior type, due to “Zero motion transfer”. In a Pocketed spring mattress the springs are wrapped inside an individual fabric case. Automated machines coil the wires and seal the coil inside the fabric encasement. Pocket



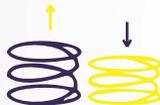
Spring cross section Once wrapped, these individual

springs are attached to each other to maintain the shape of the mattress.

Since only the fabric encasement is attached the coils inside can move independently of the springs adjacent to it.



Pocket Spring



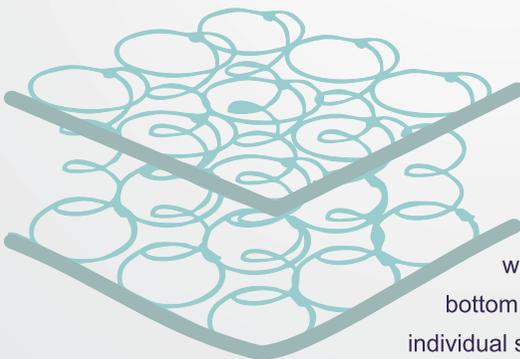
Flexible Spring



Luxury Filling



Expand & Compressed



Bonnell Spring

Bonnell Spring is the oldest spring type technology and is currently widely used in the entry-level spring mattresses. Bonnell springs are hourglass-shaped, and the ends of the wire are knotted or wrapped around the top and bottom circular portion of the coil and self-tied. All the individual spring are then tied together using spring wire, and the completed structure is reinforced with a strong border wire to retain shape. In a Bonnell spring mattress all the springs are tied together.

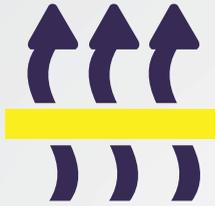
Natural Latex Foam Mattress

Latex mattresses can be manufactured using two different processes, the more popular **Dunlop process** and the more technologically advanced **Talalay process**.

Dunlop Process: - Liquid Latex is poured into a needle die, and heated to up to 120°C. This heating process is called vulcanization. The latex sheet after being removed from the die is extensively washed to remove impurities and dried to remove all the water. Most latex mattresses are made using the dunlop process.



Dunlop Process



Talalay Process: - The talalay process involves an additional flash freeze step which suspends smaller air bubbles in the mold immediately before it is rapidly heated to solidify the latex, resulting in a slightly softer, less supportive feel.

Talalay Process

Dunlop Latex is the more popular type and at least with respect to availability in India.

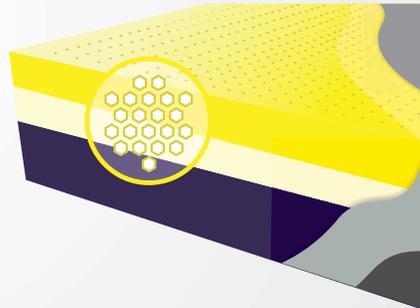
Advantages of Latex Mattress

Latex mattresses are 100% Natural.

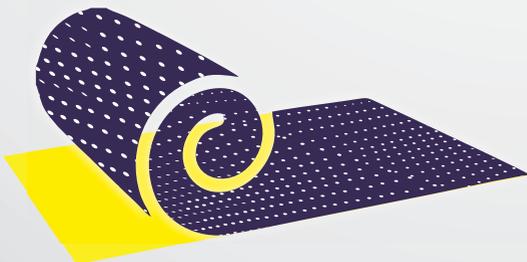
Latex reduces pressure points while sleeping particularly at the shoulders and hips, and it allows for better circulation.

For those who struggle with allergies, natural latex provides a safe haven as it is naturally hypoallergenic, and anti-microbial.

Natural latex mattresses have been known to be last for over 50 years.



Latex Mattresses specific designs:-



- The Pencil-core (or the medium core):- Entry level Latex Mattresses are Pencil-Core
- The Pin-core:- The Higher end Latex Mattresses are Pin-Core

Roll Pack & Compressed Mattresses

For transportation purposes, we can roll pack latex or memory foam mattresses. They are rolled and compressed using a vacuum to suck out the air. Rather than using a vacuum, we use an innovative compressor machine which compresses the mattress as it is being rolled.

Your Flexi bed mattress is compressed to approximately 25% of its original size using our manufacturing machinery. Our manufacturing process is carefully tested to ensure that absolutely no damage is caused during compression.

How are mattresses rolled up?

- 1- Placed in a protective bag
- 2- Flattened in a compression machine
- 3- Vacuum- and heat-sealed
- 4- Rolled using a tumbler and sealed again

Don't worry; no mattresses are harmed in this process!

How to set up a Roll Pack & Compressed mattress



- 1 - Unpack your Roll Pack & Compressed mattress and roll out to full size
- 2 - Place your mattress on the bed of your choice
- 3 - Allow your Roll Pack & Compressed mattress to expand slowly. It does this by replacing the sucked-out air, gently returning to its original size
- 4 - Your mattress is ready!

Roll Pack & Compressed Mattresses: The Benefit

- Roll Pack & Compressed mattresses are easy to carry into the room of your choice.
- Roll Pack take up less space, we can keep more in stock to make sure they're ready for you.
- Delivery vans can accommodate far more Roll Pack & Compressed mattresses than regular ones. This means less time is spent driving to and from our warehouse so you can get your mattress quicker.



- Roll packing doesn't damage the comfort and support properties of mattresses.
- It also opens the cell of the inner block while rolling, which increase the comfort.
- Made with a different multilayer of special comfort layers.
- It comes with a zipper outer cover which can be dry clean.
- When vacuum packed mattress is bloomed, it gives more confidence about the durability.



Our interest is to benefit institutional and industrial sector with our versatile and high quality products.
We organise our foams' activities around two poles;

1. Comfort, which comprises mainly commodities for the seating and mattress industry.
2. Technical Foams, which are merely higher value specialties for smaller niche markets.

FURNITURE MANUFACTURES



Seating, cushion, chair,
sofas, pillows, mattress,

Support and comfort
Durability
Resiliency
Energy absorption

CARPET MANUFACTURES



PU Foams is used as
underlay cushioning in carpet.

Extended carpet life
Reduced ambient noise
Easier carpet maintenance
Enhanced thermal insulation

TRANSPORTATION AUTOMOTIVE MANUFACTURES



Weight reduction
Sound/vibration absorption
Fuel efficiency
Durability

TEXTILES INDUSTRY



It is used as insulation for
fabric product including
clothing used in manufacturing
of Bra cups

OEMs INDUSTRY



FPF is produced in slab or
block form and cut to size for
OEMs.

Fire Retarded foam
Profile foam
Peel foam
High Resilience foam

PACKAGING INDUSTRY



It is used to packages highly
sensitive equipment such as
electronics, printed circuit boards,
jewellery and delicate foods.

Lightweight
Water resistance,
Shock absorption and resiliency

DEFENCE GOVERNMENT & RAILWAY SECTOR



Our mattress are used for
supply in government sector
and industrial foam for various
manufacturing purposes.

BEDDING



FPF is the primary material
used today for adding support,
comfort and providing
durability in mattress

Natural Latex
Rubberised Coir
Spring
Memory

HOSPITAL HOTELS REAL ESTATE



Our luxurious and comfortable
mattress are used as supply
in hotels and hospitals.

ALLIED PRODUCTS

Other Allied Industrial Products such as Rubberized Coir, Natural Latex, Spring Structures, Cotton Wool Roll, Quilted Fabric Roll, Pillows, Mattress Protectors, Concept Sofa's, Textile Bra cups, and various range of Mattresses are manufactured using the best quality raw materials. Our products are well-acknowledged among the clients for their high durability and consistency.



MANUFACTURING BASE



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