

## **Polymer Hollow Coil Mattress & Cushion Material**

Polymer hollow coil mattress and cushion is an ergonomic design material made from polymers like **EVA (Ethylene Vinyl Acetate)** or **Polyethylene (PE)**. The hollow polymer threads form a three-dimensional network structure which act as natural springs and provide cushioning effect.







SH



## **Advantages of Polymer Hollow Coil Mattress & Cushion**

- 1) Due to its three-dimensional network structure and natural spring effect the material provides good flexibility and support to the body while sleeping (material conforms to body curve). This brings about natural, comfortable and quality sleep and top-grade seating comfort.
- 2) The material has excellent air permeability and heat dissipation - which makes the mattress & cushion breathable. The excellent air permeability of the material helps to remove humidity & sweat from the mattress and keeps it cool. Breathability of the mattress exerts huge influence in the health and comfort during sleep specially in a warm country like India.
- 3) The material can be easily washed with water to remove odour and dirt. The washing also removes any bacteria that may be present in the mattress after long use. The material can be dried easily in air.
- 4) The material is mold, fungus, bacteria and mite proof. The material does not release any harmful chemicals & formaldehyde and is EU - RoHS compliant.
- 5) The material is much more durable and lighter (lower bulk density) as compared to other mattress types. The material has passed repeated compression test for thousand of times and accelerated ageing tests.
- 6) The material is environmentally friendly as it saves energy & water during production, has lower carbon footprint and can be 100 % recycled.
- 7) Lower flame spread and no toxic fumes released in case of fire unlike PU Foam or Rubberized Coir which have heavy dosage of fire retardant. No harmful chemicals released and safe even for direct human skin contact.

## End Use Applications

- Hospital bed mattress
- Home bed mattress
- Cushioning material for home & office furniture
- Cushioning material for car, bus, railway seating
- Cushioning material for sports flooring

> Product Width up to 2200 mm or 7 feet

> Product Thickness 50 mm to 150 mm

> Apparent Bulk Density 60 to 80 Kg / m<sup>3</sup>

We can provide manufacturing know-how and related technical services for the planning & implementation of the project. We can provide Project Consultancy Services such as - Selection & Sourcing of Equipment, Utility & Support facility, Installation & Commissioning, Compounding & Processing, Quality Control & Testing and trial running of plant along with foreign equipment suppliers.

As a first step we can prepare a Techno - Economic Project Report for setting-up such a plant in India. This report will clarify all points associated with the project, help you to approach financial institutions for loan purpose, approach Govt. departments for statutory clearances etc.

### **Dr. ANOMITRA CHAKRAVARTY**

KPS Consultants & Impex Pvt. Ltd.

812 Devika Tower, 6 Nehru Place

New Delhi - 110019, India.

(T) : +91 11 26213885, 41616899

(e) : kpspltd@gmail.com

(w) : www.kpsimpex.com