



# 100% EXPORT ORIENTED INDUSTRY

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**NO.1 IN THE WORLD**

# COMPANY PROFILE:

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Grow Biz Industries is proud to introduce World's No. 1 POLYCELL NPE and XPE Foam Products for the first time in Bangladesh by setting a joint-collaboration manufacturing project with POLYCELL KOREA CORPORATION which will definitely open a new dimension in the field of Protective Packaging, Quality Insulation, Construction, Comforter and Cushioning for both local and global market .

POLYCELL - your number one choice for NPE/XPE foam packaging, Insulation, Construction, Comforter and Cushioning Materials. POLYCELL has been providing superior quality products, fast friendly services and all at very reasonable prices. POLYCELL is an international business having factories crossing three continents: America, Australia, and Asia. We manufacture NPE/XPE foam products which use in the field of Packaging, Insulation, Construction, Agriculture, Comforter and Cushioning etc.

Being world's leading manufacturer in foam products, we understand the importance of environmental protection. We utilize Low-Density Polyethylene (LDPE) resin material to produce our products, which is 100% Eco-Friendly, non-toxic, odorless and 100% recyclable.

Recognizing the importance of better customer service, we strive to meet the toughest needs of our valued customers. With our fleet of delivery vehicles and professional drivers, we are able to respond to customer's vital orders swiftly. Our knowledgeable customer service and well-trained sales people respond to client's questions and provide them better solutions quickly. We process orders from our valued customers electronically and professionally to ensure that products are delivered safely and on time by our skilled people.

POLYCELL's ultimate vision is to provide superior quality products with remarkable customer service at affordable prices. By achieving this vision, our relationship will strengthen and both the customer and the company profits will go up.

## WHY POLYCELL?

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As the best manufacturer of PE Foam Products in Bangladesh, POLYCELL has been leading the industry over the years.

“ POLYCELL has evolved over the years, upgrading our modern equipment, performing daily quality tests, ensuring customer satisfaction and surpassing industry standards in their products ” .

POLYCELL manufactures Foam Roll Material, Foam Sheet material, and Foam Plank to suit thicker product needs and also manufactures laminated (with MPET Film, Aluminum Foil, HDPE Film etc) & without laminated sheet/roll/plank

POLYCELL offers private labeling of products as one of your solutions. POLYCELL will label your shipment of products with your company's name, logo and/or information on materials.

POLYCELL utilizes the most innovative techniques to recycle plastics and foam while preserving the integrity of our products in their efforts to maintain the environment.

## POLYCELL PRODUCTS:

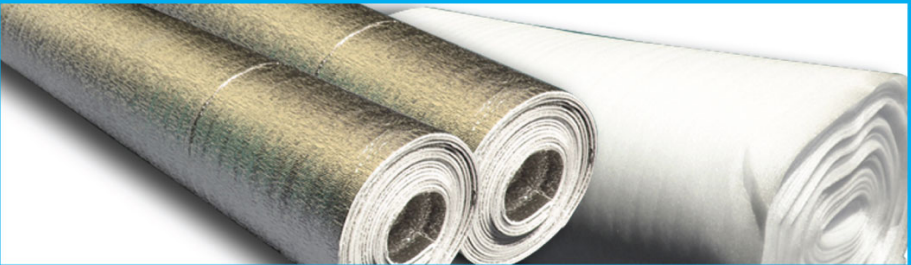
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Our special non-cross linked closed-cell polyethylene foams are formed with innumerable cells from Low Density Polyethylene (LDPE) resins expanded by 15-40 times. POLYCELL NPE Products gives excellent results in shock absorbing, moisture-proofing, heat insulating, sound proofing and easy handling has widely been used for Protective Packaging, Insulation, Construction, Comforter & Cushioning and Agricultural purposes. Our PE Foam extruder is designed by Polycell Korea Corporation's own technology to provide high quality and good service to our valued customers.

# 1. POLYCELL NPE ROLL STOCK

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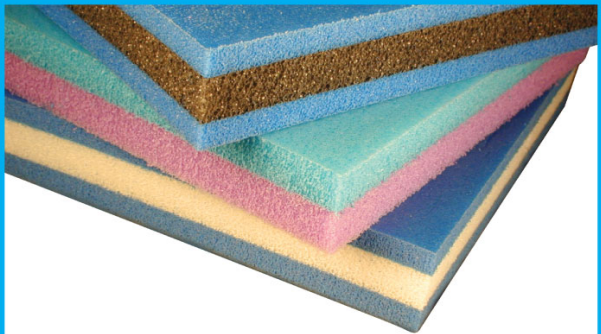
POLYCELL NPE Roll Stock has wide range of applications. Depending on customer needs, we convert into pouches, sheets, or slit into different rolls sizes. We can provide NPE Products having thicknesses from 0.5mm to 100mm and widths from 1000mm to 2000mm as per customer needs. NPE can be coated and laminated with different films, foils on customer needs.



# 2. POLYCELL NPE SHEETS:

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POLYCELL NPE Sheets are inexpensive, labor saving materials. These can be easily made into custom sizes and into different specifications. NPE Sheets take forms of standard and anti-static.



### 3. POLYCELL NPE INSULATION PRODUCTS:

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POLYCELL Insulation products reflect heat back to its source, maintaining building temperature and protecting it from shock and moisture. POLYCELL Building Insulation Products are suitable for residential, commercial and industrial building applications of all kinds. Our products are second to none in reflecting heat and providing a long lasting barrier against temperatures, humidity, corrosion, oxidation and noise. POLYCELL Insulation is also a very acoustic insulation. It complies with the International Insulation Standards.



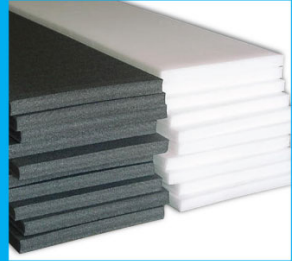
POLYCELL Metalized NPE or Aluminum Foil Laminated NPE consist of a layer of metalized foil/aluminum foil laminated on top of NPE Foam, creating an extra layer of thermal insulation and puncture resistance.

### 4. POLYCELL NPE PLANK:

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POLYCELL void-fill products are excellent for void-filling excess spaces inside of shipping carton or container, surrounding and protecting valuable goods.

POLYCELL NPE Plank Die-Cut Products are made from multiple layers of NPE Foam, trimmed and then die-cut to finish. It is the best alternative to Styrofoam because it is environmental friendly material. Plank die-cut are custom design and made to fit customers' needs. We also offer EPE planks for customers to process and make their own design. The available thicknesses are 6mm to 125mm and available width are 1000mm to 2000mm.



## 5. POLYCELL™ CONTROL STRIP & POLYCELL™ EXPANSION STRIP :

POLYCELL™ Control Strip is used in concrete construction. This product is engineered with a 12mm, easy tear strip, for use with sealant applications.

### Features:

- Easy to manipulate
- Chemically inert
- Waterproof
- Virtually dust proof

### Description:

Type: Strips of various thicknesses are intended for use with cold-and hot-applied sealants.

Form: Flat Strips

Temperature Limits: -45°F to +200°F



# BASIC APPLICATIONS OF POLYCELL PRODUCTS:

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- Protective Packaging
- Industrial Packaging
- Garments Industry
- Sweater Industry
- Pharmaceuticals Industry
- Any Type of Heat , Cold and Sound Proofing
- Pre-Fabricated Steel Building
- Construction Industry
- Roads and Bridge Construction
- Comforter and Cushioning
- Shoe Industry
- Cold Storage Insulation
- Telecommunication
- Poultry Shed Insulation etc

## OUR FACILITIES

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Housed within a 60,000 square foot building, POLYCELL can manufacture and inventory a wide variety of PE Foam products according to your specifications.

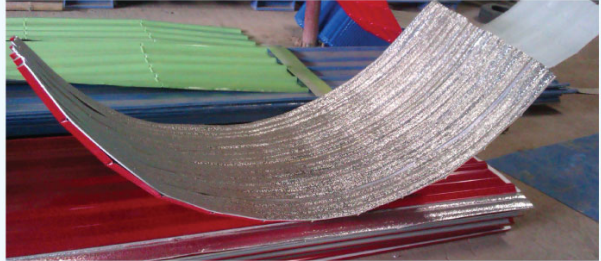




# PRE-FABRICATED STEEL BUILDING AND ATTIC APPLICATIONS

Your attic is a great way to start saving money. By installing POLYCELL Reflective Insulation under your rafters you're stopping the heat gain in the summer as well as helping to keep it in during the winter months.

POLYCELL Reflective Insulation stops heat gain/loss! Unlike mass



POLYCELL Reflective Insulation is the ideal solution for Pre-fabricated steel building applications of all shapes and sizes. POLYCELL Reflective Insulation performs as an insulation, thermal break and vapor barrier. These products come with numerous features and benefits designed specifically for today's steel building professionals.

insulations POLYCELL Reflective Insulation will not absorb heat, it will reflect it. One layer of POLYCELL Reflective Insulation under your attic rafters will reflect the heat at it rising from your living area. This will slow the melting process down which could help save your roof and add a few years to it.



# HVAC INSULATION APPLICATIONS



Our POLYCELL HVAC Insulation is rapidly becoming the insulation of choice for many quality HVAC farms, erectors and contractors. POLYCELL HVAC is constructed of polyethylene foam faced on both sides with aluminum foil or MPET Film. Used mainly as duct insulation this product has many benefits for both the installer and the building owner versus typical duct insulations. Because POLYCELL is faced on both sides with pure aluminum foil it has an extremely low K-value (0.027) which stops up to 97% of radiant heat transfer.



POLYCELL absorbs absolutely no moisture, so if condensation would occur the insulation will not lose its performance value nor will it mildew or deteriorate. It's totally non-toxic and there are no adhesives used in its construction, resulting in a clean, fiber free, hypo-allergenic duct wrap. Best of all, for the installer it is lightweight, cuts with a razor knife, and there's NO ITCH! Give it a try and find out for yourself. See why POLYCELL HVAC Insulation is "the most adaptable HVAC insulation on the market nowadays"



# AGRICULTURAL APPLICATIONS

POLYCELL Reflective Insulation can be easily installed in new or existing agricultural buildings for dairy, poultry, hatchery etc. Insects, birds and rodents will not nest in the POLYCELL Reflective Insulation. It can also be easily disinfected by power washing. POLYCELL reflective insulation helps to keep livestock cool in the summer and warm in the winter. It is also a full scale vapor barrier ensuring the long life of the building and its contents. PROTECT YOUR LIVESTOCK, PROTECT YOUR BUILDING!!!



# ROOFING APPLICATIONS



When people think of a roofing underlayment they most likely will picture asphalt felt paper. POLYCELL Reflective Insulation has revolutionized the roofing industry by introducing the first underlayment that will actually work for the homeowner. POLYCELL Reflective Insulation acts as not only an underlayment that will not absorb moisture but also as an insulator. Installed correctly it will seal around fasteners, provide a

complete vapor barrier, and stop radiant heat gain/loss. It can also be left exposed when "drying out" time is needed. No other underlayment can offer this much for the price. Building owners will be placing a product on their roof that will pay for itself by saving them money on utility bills. While most underlayment will deteriorate over time POLYCELL will last the life of your roofing system.

## UNDER CONCRETE APPLICATIONS

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UNDER SLAB APPLICATIONS POLYCELL Slab-Shield insulation was designed specifically for use under concrete slabs. We have also designed a thinner version of Slab-Shield for lightweight concrete applications. Both products give you a vapor barrier and significant thermal performance in one user friendly product. The products have a layer of closed cell polyethylene foam applied to both sides of a reflective layer. The closed cell foam is a vapor barrier and protects the aluminum from the chemical reaction that would occur with uncured concrete. All you need to apply Slab-Shield is a knife and tape (Tape is necessary for a complete vapor barrier to be achieved). Simply roll the product to the desired length and cut. Compare that to working with 4 ft x 8 ft board insulation and you'll soon see the time savings of working with Slab-Shield. Another difference between Slab-Shield and the foam boards is its ability to mold itself to the contours of your grade. Slab-Shield is flexible enough to adjust to the high and low areas helping to create a stronger finished concrete pour. Slab-Shield also does not crack or crumble when faced with the normal abuses the job site throws at it.



## APPLICATIONS OF POLYCELL CONTROL STRIP & EXPANSION JOINT:

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Closed-cell control strip extends the services life of concrete by acting as an insulator to contraction and expansion joints, while acting as a bond breaker for sealants. Common applications includes parking decks, curbs and gutters, concrete slabs, swimming pools, roads & highways and airport runways etc.



## Benefits:

POLYCELL™ Control Strip is an economical choice for use in concrete construction. It is light weight, non-absorbent, UV Stable and compressible for easy installation



## WALL & CEILING APPLICATIONS



Our POLYCELL Tab Insulation is designed to be installed in 12", 16", 18" or 24" stud cavities easily with a staple gun. POLYCELL installed in your interior walls provides a radiant barrier.



# WOOD FLOORING UNDERLAY COMFORT STANDARD

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Comfort standard offers an economic solution for insulating laminate floors. Comfort is produced from closed cell Polyethylene Foam which is CFC and HCFC free and 100% recyclable. The product is available in various sizes to suit most applications. Minor floor imperfections may be accommodated by using these materials. The product has very effective acoustic qualities.

Excellent impact sound insulation Absorbs minor floor imperfections Non dusting, non toxic and odourless Lightweight Easy to lay CFC and HCFC free



# PACKAGING GREEN

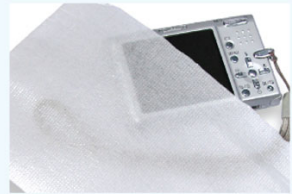
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The global focus on green manufacturing is driven by industries that facilitate the development of clean and eco-friendly solutions. This is clearly seen in the designs and overall concept of POLYCELL PE Foam global packaging solutions. POLYCELL PE Foam is compliant with stringent manufacturer environmental responsibility programs worldwide. A basic principal in creating and achieving a sustainable packaging product is to "optimize resources and energy through easy and dazzling design".

POLYCELL PE Foam has taken its interest in sustainable packaging so far as to create a separate product family which is a 100% recyclable packaging product that even goes a step further; it can be designed to withstand multiple transit trips, reducing the total number of packaging units that need to be created. Working as a partner with our valued local and global customer base, POLYCELL PE Foam is committed to continuing its development of functional, cost effective and environmentally-friendly packaging solutions.

POLYCELL NPE Products are non-cross linked polyethylene foam with closed cell structure for excellent cushioning effect, anti abrasion, moisture proof, anti static, anti rust etc. POLYCELL is available in 0.5mm up to 125mm thickness & width 1.1Meter up to 2.1 Meter for many applications.

Product available: Roll, Sheet (e.g. Die Cut, Laminated, Printing, Plank, Block etc.)



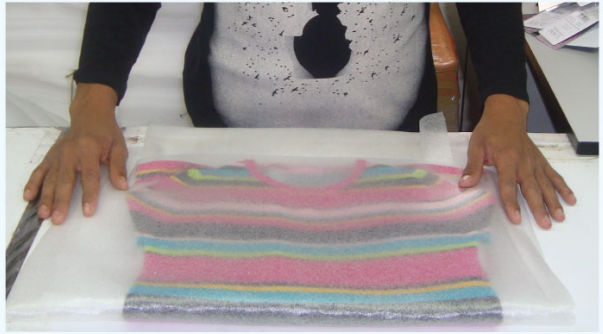
### Applications:

Industrial goods, Garments, Textile, Furniture, Leather & Leather goods, BTS, Handicrafts, Electronics & Electrical, Auto Parts, Ceramics, Ceramics Title, Glassware, Photo Frame, Marble Products, Roof Tile, Rolls of Film & Papers, Fruits, Logistics and many more.

## GARMENTS, LIFE/MARINE JACKET & SWEATERS:

Poycell PE Foam sheets and planks are widely used in Garments, Life/Marine Jacket & sweater industry now a days and this is increasing gradually for the unique features and characteristics.





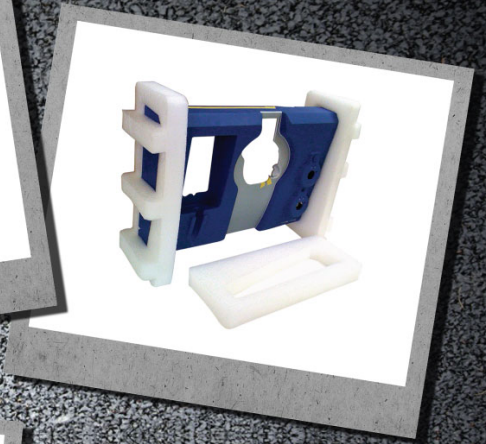
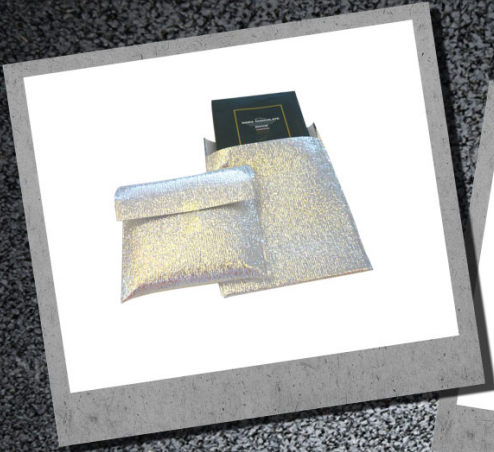
## PACKAGE GOODS APPLICATIONS

If you're looking for a great way to package your products or promote your company take a look at some of the ways POLYCELL can improve your marketing. From lunch bags to envelopes we can help your company even if you're



just looking for giveaways for a local event or trade show. Lunch bags, pizza boxes, various types of Mats such as Prayer Mat, Beach Mat, Picnic Mat, Exercise Mat etc and more! Great for companies looking for a packaging edge Great promotional item for your company.





**POLYCELL  
USAGE**

# KEY FEATURES OF POLYCELL PRODUCTS:

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- NPE Products are made from 100% Low Density Polyethylene (LDPE): High flexible and perfect for surface protection and cushioning.
- CFC or HCFC Free: Helps keep the environment protected
- 100% Recyclable: Environmentally friendly
- Non Abrasive: Will not scratch or damage surface; finely finished surfaces
- Lint and Dust free: Will not mark or contaminate products; highly sensitive products
- Moisture repellent ( Closed Cell Construction ) : Provides superior protection against water, grease and solvents ( below 130° f)
- Anti-static: Provides anti-static and cushioning protection while in transit and storage
- Excellent R-value: Reflecting up to 97% of radiant heat
- Excellent Fire Properties: Non-flammable material
- Pliable Material: Easy to bend and fold
- Light Weight: Reduced package weight; lower production and shipping cost
- Custom sizes available: Products will fit perfectly and maintain aesthetic value
- Interleaving void filling: Provide adequate cushioning protection between products
- Film Laminate: Adds rigidity and puncture resistance
- Acoustic Rating: Excellent Sound barrier for quite peaceful living. Reducing noise, having an acoustic rating of 64 DB (A) or a reduction of 10-12DB (A). (Note: Testing conducted on 170mm thick concrete slab and a white set ceiling)
- Economical: Relatively economical as compared to other products for similar applications

# TECHNICAL SPECIFICATIONS

CLASSIFICATION	ITEMS	UNIT	P.E. FOAM	REMARK
CELL STRUCTURE	DENSITY AVERAGE CELL SIZE CROSSED CELL RATIO	g/cm2 mm %	0.025 – 0.040 0.26 – 0.33	
PHYSICAL PROPERTIES	TENSILE STRENGTH ELONGATION COMPRESSION STRENGTH 10% 20% 50%  PERMANENT COMPRESSION SET REPEATED COMPRESSION SET TEARING STRENGTH COMPRESSION STRENGTH	Kg/cm2 % Kg f/cm2  % % Kg/cm2 Kg f/cm2	2.2 – 3.4 130- 140  0.030 0.197 0.787  5.0 – 6.0 2.2 – 2.4 0.52 – 1.6 0.30 – 0.40	
THERMAL PROPERTIES	HEAT DISTORTION TEMPERATURE THERMAL CONDUCTIVITY HEAT SHRINKAGE COEFFICIENT OF LINEAR EXPANSION COMBUSTION RATE INSULATION	°C Kcal/mh°C % 1/°C  Cm/min	-70 – 80 0.027-0.040 -2.3-0.4 17x10-5 Dissolution 6.4-10.0 good	
WATER RESISTANCE PROPERTIES	WATER ABSORPTION WATER VAPOR TRANSMISSION RATE MOISTURE TRANSMISSION RATE PHENOMENON WATER RESISTANCE MOISTURE RESISTANCE	mg/cm2 g/m2 hr g/m2  24hr (T)	Less than 0.03 Less than 0.01 4.62  No good	
ELECTRIC CHARACTER	DIELECTRIC CONSTANT VOLUME RESISTIVITY DIELECTRIC STRENGTH DISSIPATION FACTOR	ε(1KHZ) Ω/cm KT/mm Tanδ(1KHZ)	1.05-1.58 1018 4.8 0.0001	
OTHER PROPERTIES	CHEMICAL RESISTANCE TOXIC CHARACTER HEAT PROCESSIBILITY BUOYANCY CLARITY SOUND PROPERTIES	g/l %	880 45 good	

CERTIFICATE OF REGISTRATION



## GROW BIZ INDUSTRIES LIMITED

Head Office: House #14, Road #14, Sector #06,  
Uttara Model Town, Dhaka-1230, Bangladesh  
Factory: Habibullah Road, Deshipara, Post: Salna Bazar,  
P.S: Gazipur Sadar, Dist: Gazipur, Bangladesh

American Global Standards, LLC issues this certificate to the firm named above,  
having assessed and approved the firm's Quality Management System and finding the system  
conforms to the standards of:

### ISO 9001:2008

The Quality Management System is applicable to the following:

#### Manufacturer & Seller of PE Foam, Air Bubble Sheets & Accessories

This approval is subject to the firm maintaining its system to the required standards, which will be then  
the firm named above, and then only in accordance with the agreed upon Quality System  
Assessment Agreement.

Certification Number: AGS-B-1405004-Q  
Original Approval: May 23, 2014  
Date of Issue: May 23, 2014  
Date of Expiration: May 22, 2017



  
For and on Behalf of American  
Global Standards, LLC

USA Office: 1187 Coeur Village Road, Suite 406, Morroville, CA 92048 USA  
Tel: 617-838-4648  
[www.americanglobal.org](http://www.americanglobal.org) • [info@americanglobal.org](mailto:info@americanglobal.org)





**Bangladesh Office**

Grow Biz Industries Ltd.

House 14, Road 14, Sector 6, Uttara Model Town, Dhaka-1230

Tel : +880-2-8963605, 8950093, 8960583

Fax : +880-2-8915305

E-mail : [info@polycellbd.com](mailto:info@polycellbd.com), [sales@polycellbd.com](mailto:sales@polycellbd.com)

Web : [www.polycellbd.com](http://www.polycellbd.com)

**Korea Office**

Polycell Korea Corporation

Registered Office 1409 Sungji Heights,  
702-13 Yeosam-Dong, Kangnam-KU, Seoul

Tel : 82-2-558-3061

Fax : 82-2-558-3062

Web : [www.polycell-korea.com](http://www.polycell-korea.com)

