Global Polymer Industries cc

Manufacturer of:

Styrotex™ EXPANDED POLYSTYRENE

Styrotex SIPanel Structurally Insulated Panels

Engineered Air Specified with Confidence

www.styrotex.com.na


GLOBAL POLYMER INDUSTRIES cc

innovative and efficient


MISSION and OBJECTIVE

Global Polymer Industries cc, established in 1999 at Otjiwarongo, a 100% Namibian company, strives to be a leading manufacturer in innovative products. In cooperation with our customers, suppliers and employees, we offer valuable solutions for the ever changing market opportunities, in particular for the building- and packaging sector, through continuous product improvement and development.

Customer satisfaction is our primary concern. This we will achieve through our product- and service quality, being supported by the competence and commitment of our employees.

Quality for us means the full delivery of agreed expectations of our customers. This in essence means:

- to fully understand the customer's needs;
- with our innovative abilities and the application of the newest technologies available to produce market related and competitive products;
- implementing a strategy of problem prevention rather than problem solving;
- continuous improvements of processes (CIP);
- open-door policy on information and communication for the purpose of efficient cooperation;

Furthermore do we strive to decentralize economic development and capacities in the context of Nation Building.

OUR COMPANY GOALS

- the permanent engagement of every employee, to continuously improve the satisfaction of our clients towards our products and the undertaking;
- the securing and improving of our competitive position through optimizing the business procedures and cost structure;
- the continuous improvement of the product development activities and with it the innovational potential, to enhance the existing client relation and the acquiring of new profitable market segments;
- uplifting the company value/assets to the benefit of the clients, employees and shareholders through a continuous improvement of turnover as well as the liquidity and with it the reduction of liabilities.

To achieve and master these demanding goals we rely on active and motivated employees. Only through personal engagement of each individual can we achieve our company goals.






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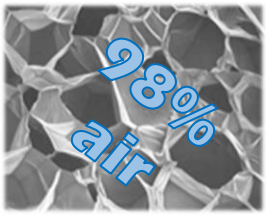
. . . Supremely Versatile and Cost Effective . . .



Uniquely combining low thermal conductivity, low weight and high strength, **Styrotex** is a supremely versatile and cost effective material – delivering a product that provides smart solutions and durable, efficient results. Equally important, EPS is a sustainable product that is recyclable and environmentally sound. The lifecycle of EPS has been studied, documented and proven to leave a smaller footprint on our planet than comparable materials. It is a smart option for packaging, building, insulating and protecting, and a responsible choice for the environment.

TYPICAL APPLICATIONS

- **Industrial and Domestic INSULATION:**
  - floors,
  - walls,
  - roofs

- **Building and Construction:**
  - void fillers,
  - GEOFOAM application,
  - insulated concrete structures (STYROBLOCK),
  - fills for expansion joints,

- **Structurally Insulated Panels for:**
  - refrigeration systems,
  - roofing systems,
  - dry wall systems,

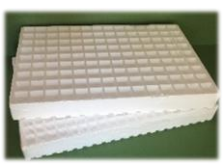
Styrotex SIPanel Structurally Insulated Panels

- **Ceiling Systems:**
  - insulated ceiling systems,
  - insulated cladding systems

- **Lagging:**
  - pipes, tanks, vessels,
  - ductwork insulation,

- **Packaging:**
  - for protection of fragile goods (also fresh food)
  - insulation and shock absorption

- **PolyStyrene Beads for**
  - lightweight concrete
  - upholstery



- **Cornices and Architrave**
  - 2D CNC cutting to customer specifactions

- **Stage Molding and Signage**

Styrotex PROPERTIES

CHEMICAL RESISTANCE

Resistant to: brine, fresh water, weak mineral acids, strong mineral acids (except concentrated nitric), weak alkalis, strong alkalis, most vegetable oils. Non-resistant to: mineral oils, chlorinated hydrocarbons, petrol and benzene, ethers and ketones.

BURNING CHARACTERISTICS

Styrotex is a combustible material. The amount of heat liberated by Styrotex undergoing combustion is very small and if this is dissipated the sustained ignition is unlikely. Styrotex raw material is treated with a fire retardant, which causes the material to shrink away from a source of ignition without burning if exposed for a short period, but burns if kept in contact with the flame for a long period. Flame retardant Styrotex is available in all densities

A fire performance classification in accordance with SANS 428:2012 of **B/B1/2/H (USP)** has been obtained

PROPERTY	Test	UNIT	SD	HD
Density	ISO 845	Kg/m3	15	20
Thermal conductivity	ASTM C518 / ISO 8301	W/(m.K)	0,040	0,038
Thermal resistance	ASTM C518 / ISO 8301	(m².K)/W	2,49	2,84
Compression strength at 10% deformation	EN 826	kPa	60	100
Bending Strength	EN 12089 B	kPa	100	150
Water absorption fully submerged after 7 days	DIN 53428	Vol. %	1,7	0,6
Water absorption fully submerged after 1 year	DIN 53428	Vol. %	5,0	4,0
Temperature range		˚C	-110 / +70	-110 / +70

The above figures are performance parameters tested by EPSASA and meeting international performance parameters.

CARBON FOOTPRINT

EPS used as thermal insulation for buildings will save 400 times as much energy as that required to manufacture the base product

GREENHOUSE GASES

EPS contains no CFC's or HCFC's. Insignificant amounts of carbon monoxide and styrene monomer are given off when EPS is burnt. Pentane is non-toxic and constitutes no threat to the ozone layer.

RESEARCH and DEVELOPMENT ACTIVITIES .

- in line with the continuous improvement of the product development activities and with it the innovational potential,

utilization of local "bush-wood fiber" as a suitable raw material

1. in the Thermoplastic Production Process (WPC/NFC)

in collaboration with Prof Habauka Kwaambwa
Associate Professor (Chemistry) and Head of Department
Natural and Applied Sciences
Namibia University of Science and Technology

2. as Biomass Fuel

3. as Animal Feed