

SAFEMAX[®]

PU FOAM meeting EN 45545, HL 1-3

HI-QUALITY
FLAME-
RETARDANT
FOAM





ABOUT US

M/s. Sheela Foam is a US\$ 400 million entity with footprints in India, Australia and Spain – an impeccable track record, since 1971.

We are an ISO 9001 certified company with more than 1500 employees, 12 manufacturing facilities in India, our subsidiary M/s. Joyce Foam Product is leading Foam producer with 5 plants in Australia, our subsidiary Interplasp have 1 plant in Spain.

Our in-house, state-of-the-art R&D lab is well equipped to meet any international specification and customized configurations.

Today, Sheela Foam leads with more than 35% Flexible PU Foam market share in India and exporting to more than 25 countries worldwide.

We cater to Polyester and Polyether PU Foam requirements for various industrial applications e.g., Automotive, Acoustic, Shoes, Bedding, Furniture and Garments with innovative grades like Memory, Fire Retardant, Reticulated, High Resilience foams made on Variable Pressure Foaming (VPF) machine – world's most environmentally friendly foaming process with zero-emissions.

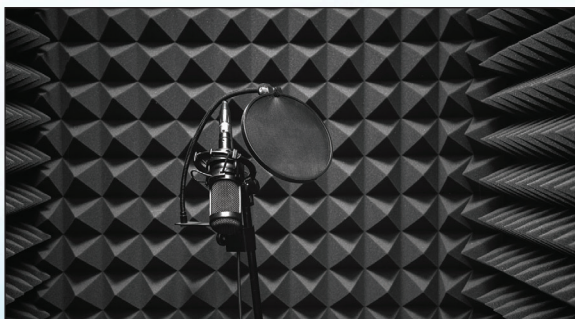
FLAME RETARDANT

EN45545 HL1-HL3 COMPLIANT

NON CARCINOGENIC MATERIAL

SOUND INSULATION

100% PURE FOAM



ABOUT SAFEMAX

Under SAFEMAX brand we offer wide range of Flame Retardant Polyurethane Foam, catering to transportation seating and insulation applications.



Our material is manufactured in a continuous foaming process having homogenous open cellular foam structure and is well de-aerated/ vented, clean and physiologically unobjectionable

Depending upon the end user application and customer needs, we offer high quality polyurethane foam products with the primary objective of superior fire safety and best in class comfort for majority of public transport like Rolling stocks, Bus, Airplane etc.



Comfortable



Flame Retardancy



Durable



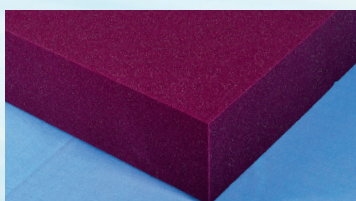
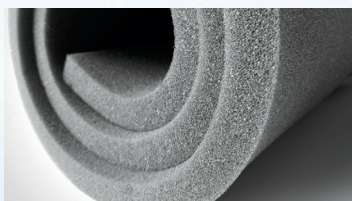
Noise Control



SAFEMAX[®]

PU FOAM meeting EN 45545, HL 1-3

Our innovative SAFEMAX portfolio includes polyurethane foam solutions for cushion/ couches, acoustic and thermal insulation for transportation such as Train, Buses, Trucks, special defence vehicles and many industrial applications and offers improved performance, safety, and longevity.



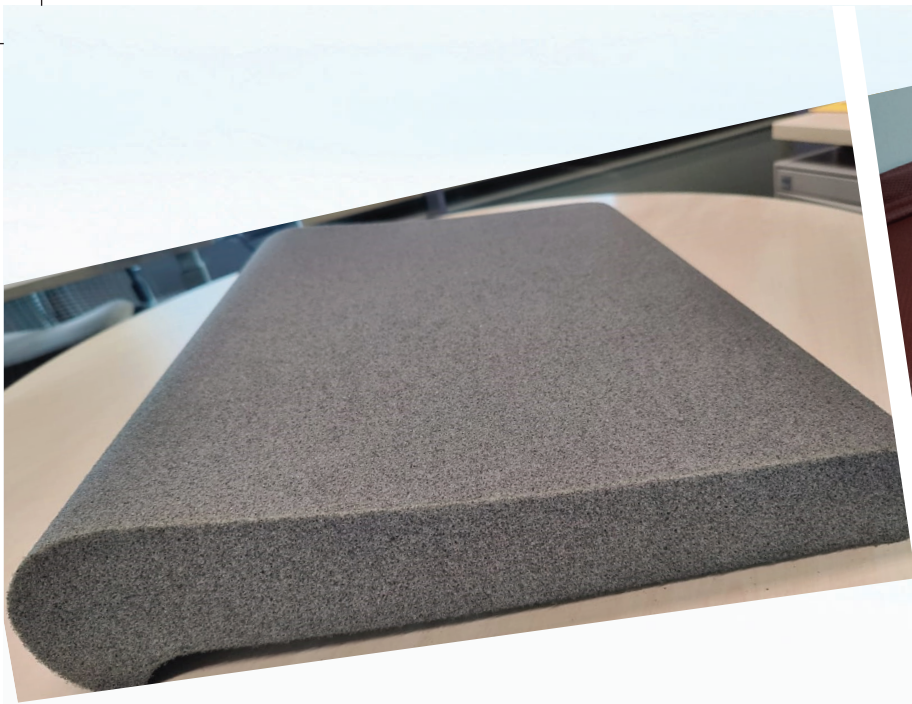
Foam insulation in cab or cabin wall panels or wrapped around components

Sound insulation foam materials for Rolling Stocks, Cabs, Vehicle and Aircraft interiors, engine compartments

Wide range of operating temperature

Lightweight material that exhibits exceptional resistance to heat, low flame propagation, and smoke

Anti-sound foam does not drip in the presence of a flame and is self extinguishing after removal of any external ignition source and fuel



Our Polyurethane foam are tested for 70 Kg/Mtr³ and 95 Kg/Mtr³ offering variety of benefits such as weight reduction, durability, etc.

SAFEMAX-SFA

Our SAFEMAX-SFA cushion portfolio includes headrest, backrest, armrest, bottom cushions and mattresses for sleeper couches/berths and chair car seats. Our Polyurethane cushion material maximizes safety in combination with comfort and durability with the use of our advanced flame retardant formulation that are fully compliant with EN45545 -2 (HL 1-3).

Our R&D team is working round the clock to make further combinations as per new customer requirements.



SAFEMAX-SFA Technical Data Sheet

S. No.	Property	Unit	SFA Value	Method of Test
1	Density	Kg/m3	70 ± 10 or 95 ± 10	EN ISO 845
2	Tensile Strength	KPa	>60	ISO 1798
3	Elongation at break	%	≥45	ISO 1798
4	Comfort Factor on 50mm thickness	-	>1	ASTM D-3574
5	Hardness Index @25% @40%	N/cm2	>0.5 >1	ASTM D-3574
6	Compression Set (50%, 70°C, 22h)	%	≤10	ISO 1856
7	Compression	KPa	7-11	EN ISO 3386
8	Humidity Ageing (%) Hardness loss	%	≤25	ISO 2440
9	Dynamic Fatigue Test Loss of Thickness Loss of Force Deflection	%	≤5 ≤10	DIN EN ISO 3385
10	Tear Strength (Kg/cm)	Kg/cm	>0.1	ISO 8067
11	Resilience (%) Minimum	%	>35	ISO 8307
12	Fire property (Without Fire Barrier Cloth) — Heat Release Rate ISO 5660-1 — Smoke Density ISO 5659-2 — Toxicity EN17084 Method - 1	EN 45545-2, R21 (HL3)		

Note: Various properties can be achieved as per customer requirements



Anti-Microbial protection based on Quaternary Ammonium Compounds with Quatlock technology developed by Fresche Bioscience – an Australian company having product centers in Australia and USA with more than 60 Global Brands partnership.



Effective even after multiple years and washes



Environment friendly



99% effective



Certified by U.S. Environmental Protection Agency

Internationally Accreditation with USA EPA, Oeko-Tex and ECHA.

VPF TECHNOLOGY

(Variable Pressure Foaming system)

The State of Art Variable Pressure Foaming Technology

- The State of Art Variable Pressure Foaming Technology
- Physical properties of the PU foam can be controlled using air pressure giving better quality products
- The Density is consistent from top to bottom of the Foam block
- Foams with greater levels of comfort
- Higher Durability with compression set values 50% lower than conventional foams
- Virtually zero emissions – No auxiliary blowing agents. No VOC's





SPAIN

MURCIA

 **Sleepwell**
INDIA

Joyce®

AUSTRALIA

BRISBANE

PERTH

ADELAIDE

SYDNEY

MELBOURNE

AUCKLAND

NEW ZEALAND

*Leading the science of comfort
in three continents.*

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