



Expanded Polyurathane Foam (Puff) :

Polyurethane foam is basically polymer, It is chemical formulation of Isocyanate and Polyol. These compounds are mixed to form rigid, cellular foam. Resultant material is light weight polymer with excellent insulating property.

Characteristics:

Density in (Kg/M3)	36 to 40 Kg/M3
Cell structure	Closed Cell
Thickness in mm	Block : 15 – 300
Dimensions	Block : 1 Mt L X 0.5 mt W
Temperature Range	- 40 °C to 110 °C
Thermal Conductivity (W/mk)	0.021 @ 10 Deg C
Compressive strength	205 kN/m ²
Water absorption	0.5 % by volume
Water vapor permeability	5.5 max (ng/Pa-s-m)

Application :

- Under deck & Over Deck Insulation
- Roof Insulation, Floor Insulation
- Walls and flooring of cold storage and referegeration wear houseing.
- Critical Industrial Application where maintening a consistng temperature is most priority.
- Pipe and tank Insulation
- Cold Storage ,Cold Room
- Food Processing Unit
- Shoping Malls
- Auditorium



Advantages:

- Environment friendly CFC & HCFC Free polyurathane foam of desired and uniform density.
- Close cell content over 90%
- Excellent Dimentional and thermal Properties.
- Superior insulating efficiency leading to energy savings.
- Durable
- Water and mositure resistant
- Resist to most oil, chemicals, and solvents
- Fire Resistance
- Void Free Insulation
- No thermal Bridges
- Cost Effective

Thermal Resistance : (R – Value)

Thickness mm	R Value (m ² .K/W)
25	1.08
30	1.3
35	1.52
40	1.73
45	1.95
50	2.17
75	3.26
100	4.34