POLYURETHANE FOAM SHEETS
(PU/ PUR / PUF sheets , Blocks, Pipe sections)

VND CELL PLAST

VND polyurethane foam is a rigid, closed cell, light weight and high mechanical strength board is sandwiched between two faces that can offer unique performance characteristics and provides high insulative properties. VND CELL PLAST produces PU foam on continuous laminator with width of 1200mm and also has a facility to manufacture in the form of Blocks

Benefits & Advantages :

- >90% Closed cell structure
- Low thermal conductivity
- Resistant to moisture
- Chemical and solvent resistant
- Easy to handle, cut and shape
- Light weight and good mechanical properties,
- Good dimensional stability
- CFC/HCFC free foam

Typical Applications

- Refrigerated transportation vehicles.
- Refrigerated display cabinets.
- Food processing and brewery industries
- Chemical process plant
- Cryogenic process plants
- Cold storage panels
- Glass reinforced plastics
- Oil refineries

- Foam Blocks, size is 2.5Mtr x 1.25Mtr x 0.4Mtr, other sizes on customer request.
- Sheet form with a width of 1200mm any length as per customer requirement
- Pipe sections
- Pre fabricated panels ⬜ Density from 35kg./Cu.m. to 200kg./Cu.m. Higher densities are available on customer request.

VND Rigid Polyurethane Foam (PUF) sheets			TECHNINCAL DATA				
PROPERTY	**UNIT**	**TEST METHOD**	**VALUE**				
Nominal Density	Kg./Cu.m	BS/4370/ASTM D1622	40	70	100	200	
Thermal Conductivity at 10^0C Mean Temp.	w/mK	BS/4370/ASTM C177	0.022	0.023	0.024	0.024	
Minimum Closed Cell Content	%	BS 4370/ ASTM D2826	90	90	90	90	
Water Vapour Permanence (Max)	g/Pa.sec.m^7 x 10^7	ASTM E96 (38°C/95% RH)	3.5	3.5	3.5	3.5	
Compressive Strength at 10% deform	kPa	BS 4370/ ASTM D1621	150	700	1500	2500	
Shear Strength	kPa	BS 4370/ ASTM C273	150	720	1200	2000	
Flexural Strength	kPa	BS 4370	200	750	1250	2100	
Tensile Strength	kPa	BS 4370/ ASTM D1623	200	750	1350	2250	
OPERATING TEMP. LIMITS Upper Limit	Deg.C		+100	+100	+100	+100	
OPERATING TEMP. LIMITS lower Limit			-180	-180	-180	-180	

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