

BUDGET CLADDING SHEET WITH ENHANCED DURABILITY, LIGHTWEIGHT AND PERFECT FOR WALL AND CEILING APPLICATIONS



Product Information:

U-PVC Budget Cladding retains unique advantages of standard foam with increased durability due to a solid surface on both sides.

Due to the increased impact resistance, fire rating and thermal properties, this grade of foam is ideal for many cladding applications.

APPLICATIONS:

- Screen
- Digital and UV Printing
- Exhibition Stands and Displays
- Wall and Ceiling Cladding
- Partitions and Shop Outfitting

CHARACTERISTICS / ADVANTAGES:

- Strong and Durable
- Lightweight
- Good Thermal Properties
- High Chemical Resistance.
- Fire Rating - Self Extinguishing

This Document Contains:

- » Chemical Datasheet (Page 2)
- » Safety Datasheet (Pages 3-6)

Chemical Properties

Physical Properties	Test	Unit	Result
1. Density	-	g/cm ³	0.7
2. Maximum Service Temp. Upper Temp Limit	-	°C	60
3. Lower Temp Limit	-	°C	0

Mechanical Properties	Test	Unit	Result
1. Tensile Strength	-	kg/cm ²	4
2. Elongation	-	MPa	58
3. Impact Strength	-	kJ/m ²	-
4. Shore Hardness	-	kJ/m ²	4
5. Vicating Softening Point	-	MPa	82
6. Elastic Modulus	-	M/mm ²	1000 - 1400
7. Flexural Strength	-	MPa	3300
8. Water Absorption Percentage	-	-	0.7
9. Coefficient of Dilation at 20°C	-	-	0.6 - 0.7
10. Mechanical Strength	-	-	Conforms to Cl.No5.4 of:5133(Pt2) - 1969

Thermal Properties	Test Method	Unit	Result
1. Thermal Conductivity	-	W/(m*k)	0.8 x 10 ₄
2. Fire Retardancy	-	-	-
3. Stability at High Temperature	-	-	CL.NO.5.6 of IS - 5133(Pt2) - 1969
4. Resistance to Abnormal Heat and Fire	-	-	CL.NO.9.15 of IS: 8828 - 1998

Electrical Properties	Test Method	Unit	Result
1. Surface Resistance	-	Ω	10 ₁₃
2. Dielectric Puncture Strength	-	kV/mm	39
3. Dielectric Loss Factor	-	-	1.10 320.103
4. Dielectric Strength	-	-	-
5. K-Value	-	kV	10

Additional Data	Test Method	Unit	Result
1. Bondability	-	-	-
2. Food compliance	-	-	+
3. Flammability	-	-	V-0

KEY + 0 -
 Yes Limited No

All the above information is for guide purposes only. The data has been taken from standard test results provided by our manufacturers.

Safety Properties

Section 1:

Components and Hazard Classification

1.1 | Components & hazard classification:

PVC Polymer	75-90%	1.15 Mpa (N/mm ²)
Inert Fillers	5 - 10%	CaCO ₃ , TiO ₂
Heat Stabilise	2 - 4%	Stabilisers
Lubricants	1 - 3%	Calcium Stearate, Parafin, Polyethylene, Polyamide Compounds or Esters
Process Aids	6 - 10%	Acrylic Compound
Impact Modifiers	0 - 2%	CPE, ABS, MBS, or Acrylic Compounds
Colourants	0 - 2%	Organic and Inorganic Compounds
Chemical Blowing	0 - 2%	Azo Compounds or Sodium Bicarbonate

Section 2:

Physical Data

2.1 | Information On Basic Physical Properties:

Boiling Point (°F)	Solid
Specific Gravity (H ₂ O=1)	0.45 - 1.40
Vapor Pressure (mm Hg)	Solid
Melting Point	Decompress Before Melting
Solubility In Water	Solid
Vapor Density	Solid
Appearance and Odor	Finished Sheets

2.2 | Fire and Explosion Data:

Flash Point (Test Method):

Not applicable

Autoignition Temperature:

Not applicable

Flammable Limits In Air % By Vol:

Lower: Not applicable **Upper:** Not applicable

Extinguishing Media:

Water spray (fog), foam, dry chemical, or CO₂ cool exposed equipment with water spray. Use self-contained breathing apparatus if fighting fire in confined spaces.

Unusual Fire and Explosion Hazard PVC:

evolves hydrogen chloride, carbon monoxide, and other toxic gases when burned. Exposure to combustion products may be fatal and should be avoided.

Safety Properties

Section 3:

Health and Hazard Information

3.1 | Health & hazard information:

First Aid - Eyes - Skin:

Immediately flush with plenty of water. Call a physician if irritation persists, flush skin with plenty of water. Remove contaminated

Inhalation:

Remove to fresh air. Under normal conditions and with normal use, no inhalation hazard is presented. Please refer to Section IV,

Ingestion:

Seek medical aid. No significant health hazard can be reasonably anticipated.

Nature of Hazard Eyes:

If exposed to high concentrations of dust, physical irritation of the eyes.

Skin:

This material is not expected to present hazard to the intact skin. Molten sheet will produce thermal burns.clothing. Call a physician if irritation persists. Wash clothing before reuse.

Section 4:

Health Hazard Information

4.1 | Health hazard information:

Exposure Limits:

None Established.

ACGIH TLV:

10 mg/m³ total dust as an 8-hour TWA is recommended.

Toxicity Data Skin Contact:

A review of the pertinent literature did not reveal specific information for PVC.

Eye Contact:

A review of the pertinent literature did not reveal specific information for PVC.

Inhalation:

Rodents exposed by the dietary or inhalation route for 6 to 24 months have shown no toxicological effects

Safety Properties

Ingestion:

See above

Special Precautions:

Avoid inhalation of combustion products/clothing. Call a physician if irritation persists. Wash clothing before reuse.

Section 5:

Reactivity Data

5.1 | Reactivity Data:

Conditions Contributing to Instability:

Not applicable.

Incompatibility:

Not applicable.

Hazardous Decomposition Products:

Hydrogen chloride and other toxic fumes generated with combustion

Conditions Contributing to:

Not applicable.

Hazardous Polymerization:

Not applicable.

Section 6:

Special Protection Information

6.1 | Special Protection Information:

Ventilation Recommendations:

General ventilation when fabricating and nuisance dust control.

Special Personal Protective Equipment:

Not applicable.

Respiratory Protection:

If dust is produced during handling, an approved particulate filter respirator should be used.

Eyes

Safety glasses or goggles.

Safety Properties

Gloves:

Necessary when handling hot molten sheets.

Other Clothing and Equipment:

As necessary when handling hot molten sheets.

Section 7:

Shipping, Transfer and Storage

7.1 | Shipping

Shipping Information:

Non hazardous for transportation purpose.

7.2 | Transportation and Storage:

Usual Shipping Containers:

Palletised sheets

Storage Transport Temperature:

Temperatures above 150 degrees F cause slow degradation.

Electrostatic Accumulation Hazard:

Yes.

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