PREMIUM CLADDING COLLECTION

uPVC Budget Cladding

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

PRODUCT DESCRIPTION

uPVC 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.

CHARACTERISTICS / ADVANTAGES

- Strong and durable
- Lightweight
- Good thermal properties
- High Chemical Resistance
- Fire rating - self extinguishing

APPLICATIONS

- Screen
- Digital and UV printing
- Exhibition stands and displays
- Wall and ceiling cladding
- Partitions and shop outfitting

PRODUCT INFORMATION

Physical Properties	Test	Unit	Result
Density	-	g/cm³	0.5 - 0.7
Maximum Service Temp. Upper Temp Limit	-	˚C	60
Lower Temp Limit	-	˚C	0

Mechanical Properties	Test	Unit	Result
Tensile Strength	-	kg/cm²	4
Elongation	-	MPa	58
Impact Strength	-	KJ/m²	-
Shore Hardness	-	KJ/m²	4
Vicat Softening Point	-	MPa	82
Elastic Modulus	-	M/mm²	1000 - 1400
Flexural Strength	-	MPa	3300
Water Absorption Percentage	-	-	0.7
Coefficient of Dilation at 20˚C	-	-	0.6 - 0.7
Mechanical Strength	-	-	Conforms to Cl.No5.4 ofl:5133(Pt2) - 1969

PREMIUM CLADDING COLLECTION

uPVC Budget Cladding

Thermal Properties	Test	Unit	Result
Thermal Conductivity	-	W/(m*k)	0.8×10^{-4}
Fire Retardancy	-	-	-
Stability at High Temperature	-	-	CL.NO.5.6 of IS - 5133(Pt2) - 1969
Resistance to Abnormal Heat and Fire	-	-	CL.NO.9.15 of IS: 8828 - 1996

Electrical Properties	Test	Unit	Result
Surface Resistant	-	Ω	10^{13}
Dielectric Puncture Strength	-	kV/mm	39
Dielectric Loss Factor	-	-	1.10 320.103
Dielectric Strength	-	-	-
K-Value	-	kv	10

Additional Data	Test	Unit	Result
Bondability	-	-	-
Food Compliance	-	-	Yes
Flammability	-	-	V-0

Please Note: All the above data 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 |	**PVC Polymer**	75 - 90%	
	Inert Fillers	5 - 10%	CaCO3, TiO2
	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 colourants
	Chemical Blowing Agents	0 - 2%	Azo Compounds or Sodium Bicarbonate

uPVC Budget Cladding

SECTION 2: Physical Data

2.1 | Information on basic physical properties

Boiling point (˚F)	Solid
Specific gravity (H2O=1)	0.45 - 1.4
Vapor pressure (mm Hg)	Solid
Melting point	Decomposes 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.

SECTION 3: Health and Hazard Information

3.1 | First Aid - Eyes - Skin:

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

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

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.

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SECTION 4: Health Hazard Information

4.1 | **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

Ingestion:
See above

Special Precautions:
Avoid inhalation of combustion products

SECTION 5: Reactivity Data

5.1 | **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

SECTION 6: Special Protection Information

6.1 | **Ventilation Recommendations:**
General ventilation when fabricating and nuisance dust control

Special Personal Protective Equipment

Respiratory Protection:
If dust is produced during handling, an approved particulate filter respirator should be used

Eyes:
Safety glasses or goggles

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 Information

Non hazardous for transportation purpose

Transportation and Storage

Usual shipping containers: Palletised sheets

Storage transport temperature: Temperatures above 150 degrees F cause slow degradation

Electrostatic accumulation hazard: Yes

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

PLEASE NOTE