



**Sallu Plastics**  
Innovators in Design & Technology

# **SALBEX**

**Rigid Pressed P.V.C. Sheet**

**Technical Data**

## **SALBEX**

SALBEX is made from Calendared, pvc foil, which is laminated under the influence of heat and pressure, and supplied in sheet format. It is manufactured to BS 3757 Type AI.

SALBEX is used in a wide variety of application, where its excellent fire properties, impact and chemical resistance make it the ideal choice. SALBEX can be supplied in the following grades –

**STANDARD** – A full range of opaque colours for signs, cladding doors and walls, displays and general fabrication. Standard grade is U.V stabilised and incorporates ingredients selected to ensure freedom from toxic hazard when in contact with food.

**TRANSPARENT** – A range of clear and tinted sheets for screens, signs, glazing, roof-lights, display and fabrication.

**INDUSTRIAL**- Sheet for a variety of industrial uses, including chemical tank lining, ducting and sign backing, industrial grade has been specially designed for applications where good chemical resistance is essential.

**CLEAR WIRE AND CARBON FIBRE GLASS MESH LAMINATES** - SALBEX transparent grade incorporating a wire or glass mesh laminate in the middle of the sheet, used in dome and roof-lights. AA rated according to BS 476: Part 3: 1975

**OPAL** – An excellent light diffusing quality sheet for indoor and exterior use, with light transmissions of between 30 -60 % depending on the thickness. Used for emergency lighting, light boxes and point of sale displays

**HP**- A non toxic, non porous and non absorbent sheet, which meets the hygiene requirements of the food industry and is used as a chopping surface or board

## **AVAILABILITY**

Most SALBEX grades are available in the following sheet size: 2460 x 1250 and other sizes are available on request. SALBEX sheet is normally supplied with a polished finish on both sides, although other finishes can be specified for thickness of 1.0 mm and above. The thickness of sheet available ranges from 0.5 mm to 50.0 mm in 0.5 mm increment's and is subject to the tolerances noted in BS 3757: 1978. SALBEX sheet will normally be supplied with polyethylene film protection on both sides except the industrial grade.

**SPECIAL EFFECTS**

Special colours, surface textures, formulations and sheet sizes are available; please contact Sallu Plastics to discuss requirements.

**TECHNICAL INFORMATION AND PHYSICAL PROPERTIES**  
**Typical values for transparent material**

Property	Test conditions	Units	Typical value
Relative density	BS 2782: 620A	Kg / m <sup>3</sup>	1390
Refractive index for sodium D line			1.54
Relative dispersion			57.0
Elastic modulus at 23 degrees C	BS2782 :335A	MPa (MN/ M <sup>2</sup> )	3400
Tensile strength	BS 2782 :320C	MPa (MN/ M <sup>2</sup> )	68
Temperature of deflection under load at 1.82 MPa	BS 2782 : 121A ASTM D648 - 56	Degrees C	62
Softening point	BS2782 :120 B	Degrees C	70
Maximum service temperature		Degrees C Degrees F	60 140
Coefficient of thermal expansion at 20 degrees C	ASTM D696	Cm /cm deg C K <sup>-1</sup>	6.7 x 10 <sup>-5</sup> 6.7 x 10 <sup>-5</sup>
At 50 degrees C		Cm /cm deg C K <sup>-1</sup>	7.1 x 10 <sup>-5</sup> 7.1 x 10 <sup>-5</sup>
Specific heat capacity	20 -80 Degrees C	Cal / g deg C Btu / lb deg F J / kg K	0.26 0.26 1.09 x 10 <sup>3</sup>
Coefficient of thermal conductivity	20 -40 Degrees C	Cal cm/ cm <sup>3</sup> s deg C Btu / in ft <sup>2</sup> deg F W / mk	4.5 x 10 <sup>-4</sup> 1.3 0.19
Poissons ratio	Tension at 22 degrees C		0.4

**SALBEX**

**Applications**

**Standard Grade**

**Rigid Pressed PVC**

Rigid, Opaque, Impact Modified.  
*Applications:* Graphic Arts, Security Printing, Electrical Components, Orthopaedic Footwear, Kitchen Knives, Exhibition Stands.

**Safety Colours**

Rigid, Opaque, UVS, Impact Modified.  
Good weathering performance. Ease of printing.  
*Applications:* Outdoor signage.

**Clear Extra Tough**

Rigid, Transparent, Impact Modified.  
*Applications:* Indoor Safety Glazing, Machine Guards, Riot Shields, Snowmobiles, Safety Screens.

**Clear & Transparent Tints**

Rigid, Transparent, UVS.  
Exceptional clarity, surface finish and dimensional stability.  
*Applications:* Glazing, Rooflights, Clock Face, Inspection Windows, Radiotherapy Masks  
Exhibition Stands, Lighting, TV Control Fascia.

**Cladding**

Rigid, Opaque, Impact Modified, Food Safe.  
Easily formed and installed over most substrates. Never needs painting or sealing.  
*Applications:* Clean Rooms, Stairways, Laboratories, Food Processing Areas, Hospitals, Elevators, Pharmaceutical Areas.

**Decorative Opaque**

Rigid, Opaque, Impact Modified.  
*Applications:* Security Printing, Electrical Components, Orthopaedic Footwear, Kitchen Knives, Bird Rings, Graphic Arts.

**Outdoor and Safety Sign Colours**

Rigid, Opaque, UVS, Impact Modified.  
Highly durable, easy to print.  
*Applications:* Outdoor Signage.

**Opal Grade**

Rigid, Translucent, UVS.  
Good light diffusing properties.  
*Applications:* Light Boxes, Signs, Domelights, Suspended Ceilings.

**HP Grade (High Performance)**

Rigid, Opaque, Impact Modified with a special scratch-resistant surface, Food Safe.  
*Applications:* Food Preparation Boards.

**Industrial Grade**

Rigid, Opaque, Impact Modified.  
Excellent chemical resistance.  
*Applications:* Tank Lining, Ducting, Sign Backing, Cutting Boards, Cladding.

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## **QUALITY CONTROL & PACKAGING**

All SALBEX sheets are inspected by highly trained quality control inspectors, before being carefully packaged to ensure the product reaches the customer in optimum condition.

SALBEX is packed in sturdy cardboard drums and is interleaved with protective tissue paper.

## **GENERAL INFORMATION**

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### **FABRICATION**

Rigid products can be heat shaped, thermoformed, hot line bent, drilled, punched, sawn and welded. They can be decorated by all the common processes (hot foil stamping, screen printing, self-adhesive lettering, spraying). Flexible Products can be punched, HF welded, vacuum formed and decorated by screen printing and self-adhesive lettering. Rigid and Flexible products can be joined to themselves and a wide variety of other materials by readily available adhesives. For further information please contact us.

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### **CHEMICAL RESISTANCE**

Pressed Rigid PVC is resistant to most chemicals other than oxidising acids and certain organic chemicals such as ketones, ethers, esters, chlorinated hydrocarbons and aromatic compounds. Common household liquids including tea, coffee and ball-pen ink will not stain the surface. Detailed information can be obtained by contacting us. It is however recommended that field trials be carried out based on the information given, since individual conditions of exposure will vary.

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### **CLEANING**

Cleaning of Pressed Rigid and Flexible Sheet is satisfactorily carried out with soap and water. Proprietary cleaners should not be used unless specifically stated to be suitable for the material, as they may contain an abrasive or solvent which will affect the surface. A 0.5% solution of Lissapol in water, applied to the sheet and allowed to dry, will reduce the development of an electrostatic charge and thus minimise dust pick-up.

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### **FLAMMABILITY**

Most samples of the Pressed Rigid PVC grades listed when tested meet the requirements of UL 94=0 and ASTM E84. Results of flammability tests relate to the performance of samples of the material under the test condition described in the specifications indicated. The do not provide and

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	indication of performance under actual fire condition.
<b>TOLERANCES</b>	For Plate Pressed PVC the manufacturing thickness tolerances are +/- 15% for Gauges from 0.15 – 0.25mm and +/- 10% for Gauges above 0.25mm. The manufacturing tolerance for the sheet size is +/- 3.0mm. The manufacturing tolerance for productions yield is +/- 10%
<b>SURFACE FINISHES</b>	Surface Finishes are available manufactured to order and may include a combination of Polished, Matt or Satin. Most Ex-Stock items are supplied in a Polished finish.
<b>SPECIALIST COLOURS</b>	Non Standard Colours are possible subject to a 500kg minimum order of calendared intermediate stock. Please note that for Transparent Clear and Tint Products, the intensity of colour, and hence the light transmission, will vary with thickness.
<b>PROTECTIVE PACKAGING</b>	Large Sheets with a polished finish are protected by polythene coating. Small sheets are interleaved with tissue (except Clear and Tints 0.75mm and above which are interleaved with protective paper).
<b>TECHINCAL DATA</b>	Information is available for individual products detailing Chemical and Physical properties, Fabrication and General manipulation.
<b>CONDITION OF SALE</b>	All products are sold subject to Sallu & Sallu Plastics Conditions of Sale. All orders are subject to availability of raw material and prices ruling at times of despatch.

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## **CARE & MAINTENANCE**

Cleaning is best carried out with dilute soap or detergent solution, once the enclosure has been thoroughly rinsed to loosen the build up dirt. Soap should be rinsed off thoroughly afterwards and should not be allowed to dry on the SALBEX sheets.

Proprietary cleaners should not be used unless specifically stated to be suitable for cleaning purposes, as they may contain either an abrasive or solvent, both of which will adversely affect the PVC surface.