

## TELBEX Impact Colours

TELBEX sheet is a tough, rigid, opaque PVC product available in a range of standard colours. In addition to excellent chemical resistance, the sheet has high tensile strength, good impact strength and dimensional stability, low thermal conductivity and good electrical properties, making it ideal for use in a diverse range of applications.

Fabrication is easy with TELBEX sheet, which can be sawn, drilled, routed, milled and welded. The maximum service temperature of 60°C (subject to chemical resistance considerations) can be increased to 95°C if armoured with glass reinforced polyester (GRP).

TELBEX has a much lower specific gravity than other chemically resistant materials, such as high duty alloys, and is easily machined using standard joinery equipment. It is free from electrolytic effects when used in combination with other substrates.

### Physical Properties

<u>Property</u>	<u>Value</u>	<u>Method</u>
Specific gravity	1.34	DIN 53479
Vicat Softening Point	83 +/- 1°C	DIN EN ISO 306 (5kg; air)
Tensile strength	42-50 N/mm <sup>2</sup>	DIN EN ISO 527 / 1-3
Elongation at Break	50-100 %	DIN EN ISO 527 / 1-3
Izod impact strength	160 J/m	ASTM D256
Coefficient of thermal linear expansion.	8 x 10 <sup>-5</sup> per unit of length per °C	
Maximum service temperature	60°C*	
Volume resistivity	10 <sup>15</sup> ohm/cm	BS2782:1983 Method 230A
Surface resistivity	10 <sup>14</sup> ohm	BS2782:1983 Method 231A
Dielectric strength	14 kV/mm	BS2782:1983 Method 220 and 221

\*Subject to chemical resistance considerations TELBEX can be used up to temperatures of 95°C if armoured with glass reinforced polyester (GRP).

## Chemical Resistance

### **Organic Compounds**

Telbex is unaffected by aliphatic hydrocarbons (most oils and greases), as well as aliphatic alcohols. It is attacked by aromatic and chlorinated hydrocarbons, ketones, ethers, esters and amines. Usually these organic compounds will cause swelling of the PVC by solvent action.

### **Inorganic Compounds**

At temperatures of up to 60°C, Telbex is resistant to attack by most inorganic liquids including moderately concentrated acids, all alkalis and aqueous salt solutions at all concentrations. Powerful oxidising agents including oxidising acids will attack it in certain conditions.

A more comprehensive chemical resistance datasheet can be obtained on request from Telegan.

## Cleaning

Cleaning is best carried out with dilute soap or detergent solution before being rinsed thoroughly using fresh water. Proprietary cleaners should be avoided as they may contain solvents or abrasives which could damage the material surface.

## Shelf Life

Material should be stored in a cool, dry environment between 5-25°C.

<p><b>Sales &amp; Production:</b> Telegan Pressed Products Ltd, Unit 3, Old Mercedes Building, Stour Road, Harwich, Essex, CO12 3HF Tel: 01255 554 141 Fax 01255 554 900 e-mail: salesppd@teleganpressedproducts.com</p>	 <p>ISO 9001 Registered Firm Certificate No. GB2003568</p>	 <p>International Accreditation Board Registration No. 0044/1</p>	<p><b>Administration &amp; Accounts:</b> Telegan Pressed Products Ltd, Sealand Centre, 3/5 Holmethorpe Avenue, Redhill, Surrey, RH1 2LZ Tel: 01737 763 400 Fax 01737 782 818 e-mail: mdpa@teleganpressedproducts.com</p>
--	---	--	--

*The information contained in this document is correct to the best of our knowledge but results may vary depending on the conditions under which the material is used and consequently recommendations are made without warranty or guarantee.*