

Polarex PC0001 is an extruded semi-rigid PVC (PVC-U) Hygienic Wall Cladding sheet. It contains no plasticisers, no fillers and displays normal impact strength. The sheets are produced from unplasticised moulding materials according to DIN EN ISO 1163-1. They conform to the technical supply conditions (dimensions) of DIN EN ISO 11833-1. The material corresponds to the following moulding compound; ISO 1163-1 - PVC-U, EC, 074 - 05 – T28. The semi-finished materials are free from blisters, voids and are perfectly homogenous.

Product Features

Attribute	Value
Material	Semi-rigid PVC (PVC-U)
Colour	White
Length	2500mm or 3000mm
Width	1220mm
Thickness	2.5mm
Finish	Satin
Jointing	Suitable for Welding or Joint Strips
Printing	Printable
Fire Rating	Class 'O'
Tolerance of Thickness	$\pm (0,1 + 0,03 \times s)$, s = thickness [mm], as DIN EN ISO 11833-1
Tolerance of Length	Subject to DIN EN ISO 11833-1
Tolerance of Width	Subject to DIN EN ISO 11833-1
Density	ISO 1183 (DIN 53479) g/cm ³ » 1,44
Tensile Stress at Yield	DIN EN ISO 527 (DIN 53 455) test specimen 1 B N/mm ² 50
Elongation at Break	DIN EN ISO 527 (DIN 53 455) test specimen 1 B % 20
Modulus of Elasticity	ISO 527-2 (DIN 53 457) test specimen 1 B N/mm ² 2700
Compression Strength	ISO 3605 (DIN 53 454) N/mm ² 65
Stress at 3,5% Strain	ISO 178 (DIN 53 452) N/mm ² 70
Impact Strength	DIN EN ISO 179 (DIN 53 453) test specimen 1eU kJ/m ² no rupture at 0 °C
Notch Impact Strength	DIN EN ISO 179 (DIN 53 453) test specimen 1eA kJ/m ² 4
Ball-Pressure Hardness	ISO 2039 (DIN 53 456) H358/30 N/mm ² » 110
Shore Hardness	D DIN 53 505
Vicat Softening Temperature	DIN EN ISO 306 Method B 50 °C 75
Heat Distortion Temperature	DIN EN ISO 75 Method A °C » 65
Heat Distortion Temperature	DIN EN ISO 75 Method B °C » 70
Coefficient of Linr Expansion	DIN 53 752 20 to 60°C K-1 » 70 × 10 ⁻⁶
Thermal Conductivity at 20°C	20°C DIN 52 616 W/(m × K)
Volumeresistivity	DIN IEC 60093 VDE 0303-30 W × cm > 1015
Surface Resistivity	DIN IEC 60093 VDE 0303-30 W > 1013
Glow Wire Test	IEC / DIN EN 60695-2-12 960 °C passed
Water Absorption	DIN 53 495 / ISO 62 Method 3L % 1
Temperature Range	-15 to max. 60°C
Fire Behaviour	DIN 4102 (D) B1, 1 to 4 mm

The physical data given in the table were determined on the test specimens under defined conditions and represent averages values from a relatively large number of measurements. The values measured on test specimens can't be used without restriction for a prediction of the properties of finished articles, since processing and shaping have an influence on the properties.