

Polarex Wall Armour

Polarex Wall Armour is the perfect solution for wall and door protection an extruded semi-rigid PVC sheet combined with an antimicrobial active componen. The Antimicrobial property has been scientifically tested in accordance with ISO 22196 and has proven to reduce bacteria up to 99.9%, and be effective against MRSA, E.Coli and Influenza. The textured finish on the Polarex Wall Armour is designed for reinforced impact resistance and offers a Class 'O' Fire Rating* (on non-combustible substrates). It contains no plasticisers, no fillers and displays normal impact strength. The sheet materials correspond to the following moulding compound: ISO 13501-1 – PVC-U, EC, 074 – 05 – T28. They conform to fire regulations of the BS476: Part 7: 1997 and achieved Class 1 through-out a variety of tests. The semi-finished materials are free from blisters, voids and are perfectly homogenous.

Product Features

Attribute	Value
Density	ISO 13501 (DIN 53479) g/cm ³ ≈ 1,41
Tensile stress at Yield	ASTM D638 Kgf/cm ² 600
Elongation at break	ASTM D638 %100
Modulus of elasticity	ASTM D790 Kgf/cm ² 34,000
Compression Strength	ASTM D256 Kgf/cm ² 5.0
Stress at 3,5% Strain	ISO 178 (DIN 53 452) N/mm ² 60
Impact Strength	ASTM D256 Kgf/cm ² 5.0
Notch Impact Strength	ASTM D256 Kgf/cm ² 5.0
Heat Distortion Temperature	ASTM D648 60°C
Coefficient of linear expansion	ASTM D696 7.0x10-5 cm/cm°C
Surface Resistivity	ASTM D256 Kgf/cm ² 5.0
Dielectric Loss Factor Tan	ASTM D149 kv/mm 22-35
Breakdown Voltage	ASTM D149 kv/mm 22-35
Temperature Range for Application	-15 to 60°C
Fire Behaviour	EN12501, BS 476 class 1 & 0

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.