



Clearway

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FLEXIBLE VINYL

SOLUTION FOR BUILDING

PARTITIONS & CEILING

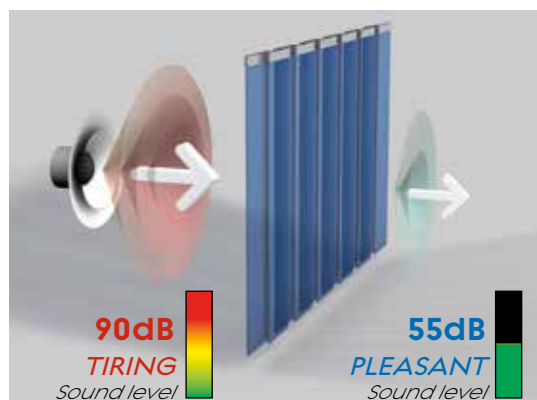
/// FLEXIBLE VINYL INSULATES YOUR BUILDING

Flexible and transparent, soft vinyl is an excellent thermal and phonic insulator. Such qualities, which are rarely combined in materials like glass, wood, metal and other thermoplastics, make flexible vinyl a choice material.

/// A BARRIER TO REDUCE NOISE PROPAGATION

The material behaves like a soft viscoelastic mass that can absorb sound waves and dissipate its energy in the form of micro-heat by a viscous amortisation phenomenon. This property lets flexible vinyl absorb all sound waves -in particular low frequencies- better than other materials.

- ✓ An average reduction of -35 dB equivalent to wearing mufflers
- ✓ 1 to 5 mm of thickness is enough to get -35 dB

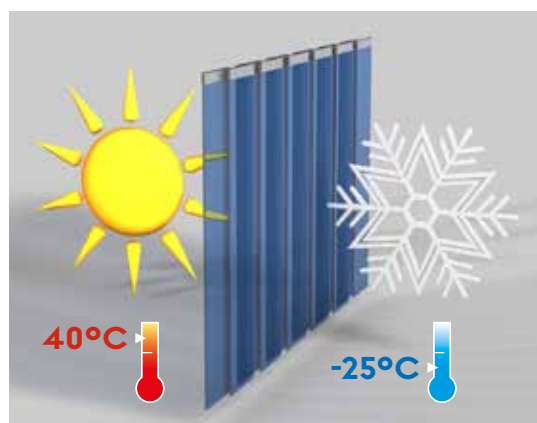


/// THE BEST SOLUTION FOR THERMAL INSULATION

Flexible vinyl is an advantage in your building.

Insulation and energy gain are greater than with all plastics (except polystyrene).

- ✓ Excellent thermal conductivity (λ) and resistance (R) (similar to characteristics of wood):
 $\lambda = 0,16 \text{ W}\cdot\text{m}^{-1}\cdot\text{C}^{-1}$
 $R = 30 \text{ m}^2\cdot\text{C}\cdot\text{W}^{-1}$ (5mm d'épaisseur)
- ✓ Simple installation: thin, flexible material easy to install
- ✓ Transparency for a secure installation and creation of insulating partitions



GUILAUME TEISSEDRÉ – ENGINEER AND HEAD OF THE R&D SERVICE, GIVES US HIS EXPERT APPRAISAL:

“FLEXIBLE VINYL IS ONE OF THE RARE PLASTIC MATERIALS THAT CAN BE FORMULATED TO CONFER THE DESIRED PROPERTIES TO IT. BOTH EXTRUDER AND COMPOUNDER, THE Clearway TECHNICAL TEAM TRIES TO MEET AND OFFER THE BEST SOLUTIONS TO OUR CUSTOMERS’ SPECIFICATIONS.”

FLEXIBLE VINYL REINFORCES YOUR BUILDING

Fireproofed, reinforced, anti-static, anti-UV, antibacterial – flexible vinyl is suited to your needs.

FIRE RETARDANT FLEXIBLE VINYL

Flexible vinyl is a naturally self-extinguishing material (which extinguishes at the withdrawal of the flame).

Its fire resistance can be increased to respond to the various international requirements demanded in construction and building: EUROCLASS classification (E, D, C or B), M classification (M1 to M4), B classification (B1 to B2), V classification (V0 to V2), EN1598, ISO 25890, etc.



Our products are certified by specialised laboratories.



EUROCLASS testing booth

SOLIDITY/RESISTANCE OF FLEXIBLE VINYL

Resistance to elongation and tearing can be reinforced by adding a polyester web inside the material to meet the most demanding specifications (superstructures, large dimensions, stretched installations, large charges).

- ✓ Better tear resistance
- ✓ Better dimensional stability under stress

Clearway® Exclusivity



CHARACTERISTICS POSSIBLE WITH FLEXIBLE VINYL

- ✓ Strips: from 75 mm to 2.2 m
- ✓ Thickness: from 1 to 12 mm
- ✓ Clear or opaque
- ✓ Operating temperature: -60°C to +50°C
- ✓ Antistatic, UV-resistant, printable surface, easy gluing



/// FLEXIBLE VINYL EASY INSTALLATION!

/// IMPLEMENTATION METHODS

Gluing

Flexible PVC can be glued to itself and on many plastics using specialised «flexible vinyl» glues or THF (Tetrahydrofuran). Gluing with THF is recommended, because the two pieces of PVC melt into each other. The invisible gluing with THF is practically like a chemical weld that offers optimum mechanical resistance.

Simple and easy, gluing the vinyl makes it possible to put together sealed parts of variable geometries and dimensions. It is recommended when the gluing area is large.

Advantage: simple, easy and transparent.



Welding

Flexible vinyl can be welded easily and effectively to itself by high temperature or high frequency (HF).

This simple, widely used process obtains a final gluing as soon as it is done. High-temperature gluing does not deform the parts and keeps excellent transparency. HF gluing makes quick, automated welds over long lengths.

A good weld provides good seal and maximum mechanical resistance over time.

Advantage: seal, final fixing and transparency.

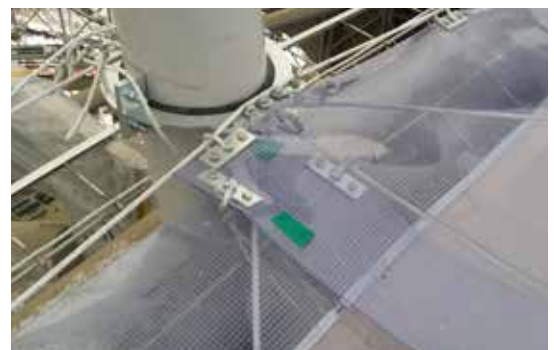


Fixing/Installation

Mechanical fixing of strips or panels allows immediate implementation, whether the products are suspended or if they serve to protect or seal.

Fixing by a plate and back-plate is the most solid, robust and fastest way.

Advantage: local fixing, high resistance, possibility of tensioning.



APPLICATIONS

Fireproofed, reinforced, anti-static, anti-UV, antibacterial
Flexible vinyl is suited to your needs.

CLEARWAY® CREATIONS



Flexible vinyl dome - Sky Dome stadium
Seoul, South Korea



Acoustic optimisation - France Télévision
Paris, France



Acoustic optimisation - GA Record Studio
Maison Alfort, France



Partitions and doors - «Le Millénaire» shopping centre
Aubervilliers, France



Phonic insulation - Bristol Hotel
Paris, France



Energy optimisation - Vodaphone Datacentre
France



Doors, partitions and gantries - Airports of Rome (Italy) and
Madrid (Spain)



Phonic and thermal partitions



Technical rooms



Double swinging doors



Automatic doors



Doors with strips



Welding



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