



# ETP021

## Preliminary Technical Datasheet

### Material Description & Properties

Cork granule size (mm)	2 - 4
Thickness available (mm)	>0,8 <sup>(1)</sup>
Color	Light Brown
Standard Format	Sheets or rolls

<sup>(1)</sup> It can be adjusted upon request.

### Technical information

Density (kg/m <sup>3</sup> )	107 - 205 (ASTM F1315)
Thermal conductivity (W/mK)	0,051 (ISO 8301)
Compressibility at 1,3 MPa (%) <sup>(1)</sup>	50,2 ± 1,0 (internal procedure)
Compressibility at 2,5 MPa (%) <sup>(1)</sup>	72,6 ± 1,1 (internal procedure)
Hardness (Shore A)	64,3 ± 2,8 (ASTM D2240)
Dielectric strength (kV/mm)	5,1 ± 1,1 (ASTM D149)
$\Delta T/\Delta t$ (°C/min) <sup>(2)</sup>	40,3 ± 0,7 (internal procedure)

The presented values are based on 2 mm sheets.

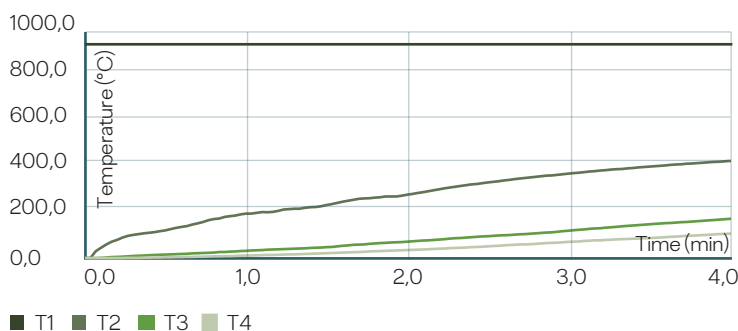
<sup>(1)</sup> Compression trials performed at 0,2 mm/min.

<sup>(2)</sup> Value determined assuming T3(T3f - T30), f is the final time and 0 is the initial time;  $\Delta T/\Delta t$  gives an indication of the thermal insulation capability.

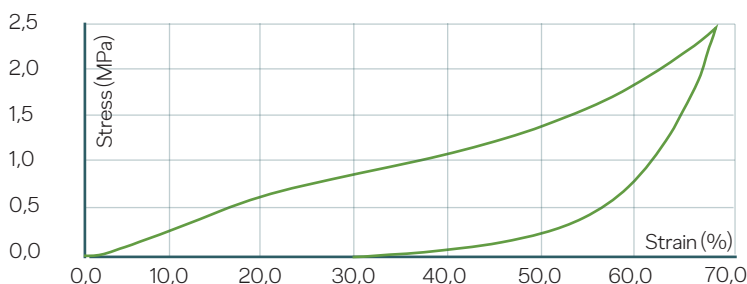


**ETP021** is a polyurethane cork agglomerated material with low density and high compressibility, together with high thermal insulation.

### Insulation test (internal procedure)



### Compressibility test

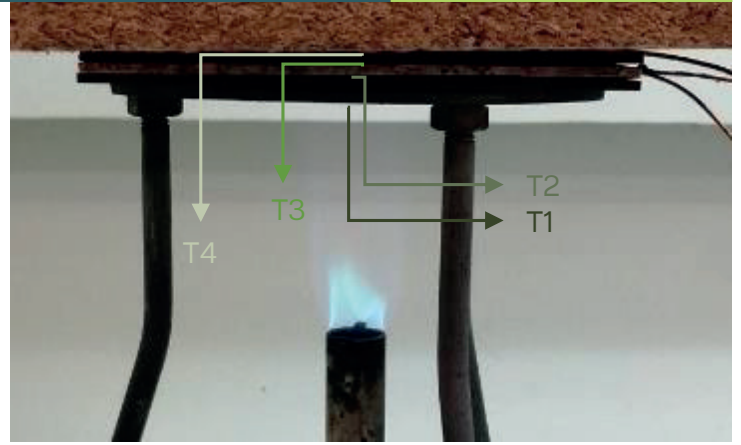


sales@chilternconnections.co.uk  
+44 (0) 1491 824 788

www.chilternconnections.co.uk

### Insulation test (internal procedure)

- Flame temperature  $\approx 1000^{\circ}\text{C}$
- Distance flame/steel plate: 55 mm
- Steel plates thickness: 2 mm
- Cork sample size: 100 x 100 x 2 mm
- Temperature's description:
  - T1 - flame temperature on the steel plate
  - T2 - lower steel plate/ cork interface
  - T3 - cork/upper steel plate
  - T4 - outer upper steel plate
- Upper weight (4,8 kg) and insulative cork block (50 mm) to ensure full cork steel contact and to decrease heat losses.



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