



FIBERCORK®

Preliminary Technical Datasheet

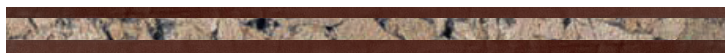
Material Description & Properties

FIBERCORK® is a range of solutions developed for the thermal insulation of high voltage batteries in electric vehicles.

Plate thickness (mm)	1,4 - 3 ⁽¹⁾
Density (kg/m³)	1500 ⁽²⁾
Color	Black/Brown

⁽¹⁾Tolerances +/- 0,1mm; other thicknesses on request

⁽²⁾Tolerances +/- 50kg/m³



Puncture protection

Successfully passed the particle fire test for battery pack;
Resistant against high gas flow rates and abrasive particles;
Chemical resistance to escaping gas;
No electrically conductive;
Electrical discharge protection arc.



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Module cover top



Thickness (mm)	2,7
Flame retardant	1200°C > 10min
Particle Protection	Yes
Molding	Yes

Module cover lining



Thickness (mm)	1,7
Flame retardant	1200°C > 10min
Particle Protection	No
Molding	Yes

Bulkhead partition



Thickness (mm)	1,4
Flame retardant	1000°C > 10min
Particle Protection	No
Molding	Yes

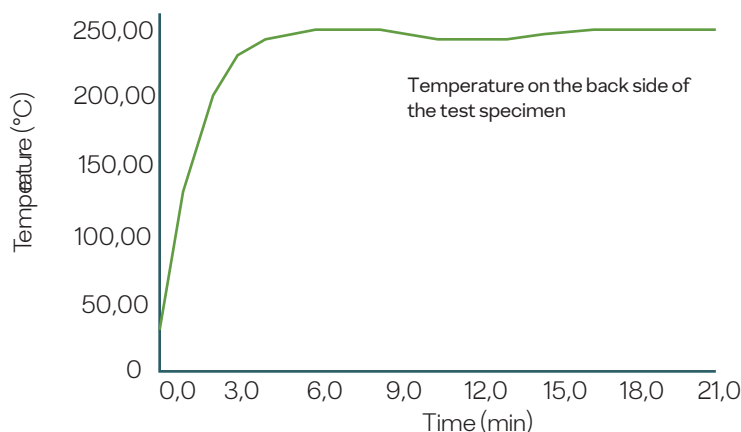
Cell spacer



Thickness (mm)	1,0
Flame retardant	700°C > 5min
Particle Protection	No
Molding	Yes

Successful fire test with more than 15 minute fire exposition

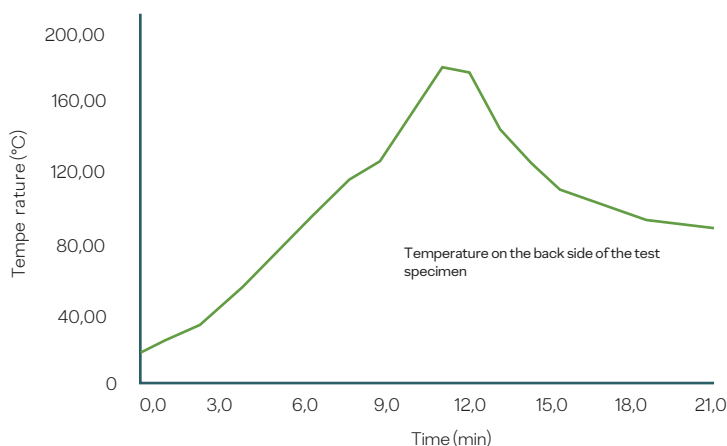
Heat resistance up to 1200° > 15 minutes;
Resistance to higher volume flow of gas and abrasive particles;
Chemical resistance to emitting gases;
Mechanical stability over lifetime in particular at attachment points;
Operating temperature between -40 and 110°C;
Little particles losses and no conductive particles;
Resistance to typical vehicle fluids;



— FiberCork® 1,7mm

Test requirement: No burn-through after 10 min of 1200 °C fire treatment with torch flame; distance of 65 mm to test specimen.

Successful particle bombardment with pyrotechnic



— FiberCork® 2,7mm

Test requirement: After 20s, substrate material shall not be penetrated by pyrotechnic stages fountain treatment.



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