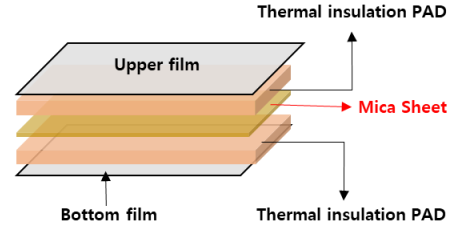


TYTR SERIES

TYTR series is a product that can delay the spread of flames to adjacent cells during a fire, preventing thermal propagation in the battery

Features

- Excellent flexibility : can be perfectly embed in uneven interface
- Excellent mechanical cushioning performance
- Excellent flame retardant performance : meet UL94 V-0 level
- Have a variety of product lines (Hardness, Thickness, etc.)
- Satisfies RoHS and REACH standards

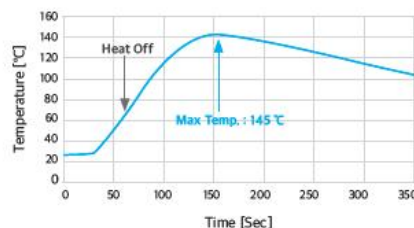
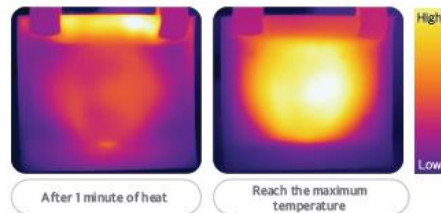


Standard products

| TYTR series | Test method | TYTR-55 |
|---|-----------------------|------------------|
| Thickness [mm] | ASTM D374 | > 2.0 |
| Density [g/cm ³] | ASTM D792 | 0.8 |
| Hardness [Shore 00] | ASTM D2240 | 55 |
| Compression Force Deflection @ 25 % [kPa] | (modified) ASTM D3574 | 340 |
| Compression Force Deflection @ 50 % [kPa] | (modified) ASTM D3574 | 600 |
| Breakdown Voltage [kV/mm] | ASTM D149 | > 10 |
| Volume Resistivity [Ω -cm] | ASTM D257 | 10 ¹⁰ |
| Flammability | UL94 | V-0 |

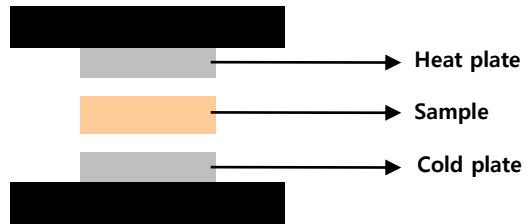
Performance Data : Torch TEST

Test Method : The backside temperature of the pad was measured after exposure to a torch flame for 1 minute at a fixed distance



Performance Data : Hot & Cold Side TEST

- Test Method : The backside temperature was measured by bringing the sample into contact with the high temperature plate under a constant load



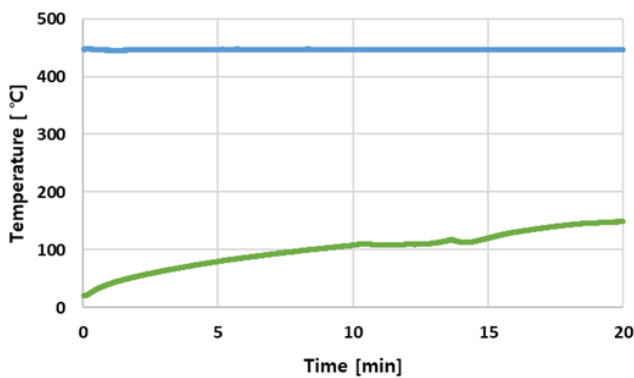
Hot & Cold Side TESTER / Hot & Cold Side TEST Schematic diagram

• Test Result

- TEST Pressure : 1.5 bar (150 kPa)
- Measurement Thickness : 3 mm

| TEST Temperature | TEST Time [min] | Backside Temperature |
|------------------|-----------------|----------------------|
| 450 °C | 10 | 108 °C |
| | 20 | 149 °C |
| 650 °C | 10 | 153 °C |
| | 20 | 210 °C |

Thermal Insulation Result @ 450 °C



Thermal Insulation Result @ 650 °C

