LiPOLY®
SHIU LI TECHNOLOGY CO.,LTD

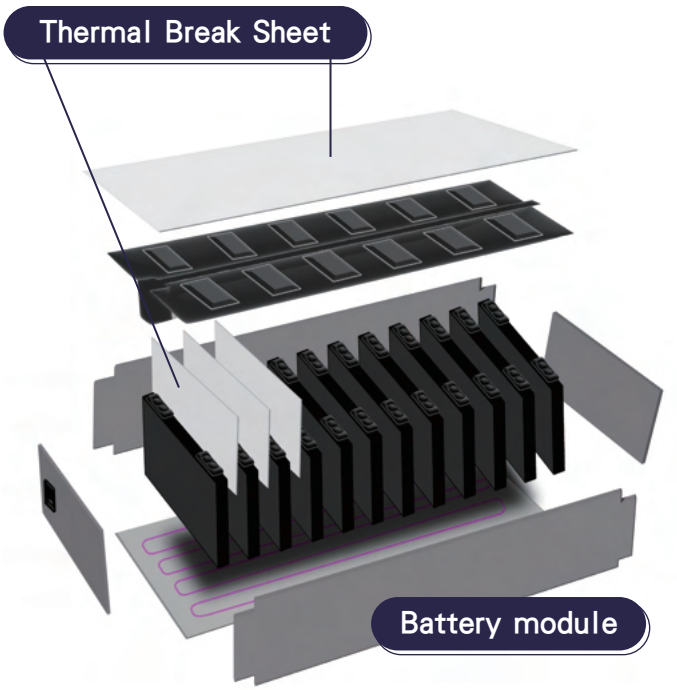
AS17-s

Thermal Break Sheet (Industrial industry)

AS17-s thermal insulation material is a fiber composed of porous structure silica, aluminum oxide and other materials, featuring an extremely low thermal conductivity of 0.028 W/m*K. AS17-s is known for its ability to prevent thermal runaway, with a low density and the capability to withstand temperatures up to 1300°C. Its outstanding characteristics include excellent thermal insulation, superior noise reduction, insulation, cushioning, and fire resistance, making it renowned in various applications. AS17-s is utilized across many different fields, including aerospace, energy storage, military, new energy, automotive, firefighting, and rail transportation. Application scope of Application scope of AS17-s Continuously expanding, as the technology further develops, we will see more applications in emerging fields in the future, and these applications will continue to drive the importance of its application in modern industry and life.

FEATURES

/ Excellent thermal insulation performance, with a thermal conductivity of 0.028 W/m*K
/ Exceptional thermal stability, suitable for long-term use in environments up to 1300°C
/ Good aging resistance
/ High friction coefficient and stability, providing long-term physical support for various substrates
/ Complies with RoHS and REACH standards
/ Available in both rolls and sheets
/ Cotton felt feeling on surface



TYPICAL APPLICATION

/ Industrial applications, such as industrial industry, EV related (battery modules, electromagnetic cabin fireproof and thermal insulation layer, engine compartment fireproof and thermal insulation layer, body flame retardant and thermal insulation layer, seat flame retardant lining dashboard fireproof and thermal insulation layer)

TYPICAL PROPERTIES

PROPERTY	AS17-s	TEST METHOD	UNIT
Color	White	Visual	-
Thickness	Customized	ASTM D374	mm
Density	3.0	ASTM D792	g/cm³
Application temperature	-60~1300	-	°C
Short time temp.@30sec	1650	-	°C
TML(wt%)	0.02	By LiPOLY	-
Outgassing CVCM (wt%)	0.04	By LiPOLY	-
ROHS & REACH	Compliant	-	-
THERMAL@3.0mm			
Thermal conductivity	0.028	ASTM D5470	W/m*K
Thermal impedance@10 psi	56	ASTM D5470	°C-in²/ W