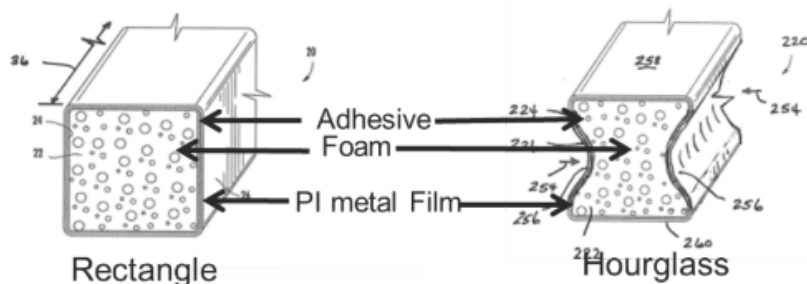


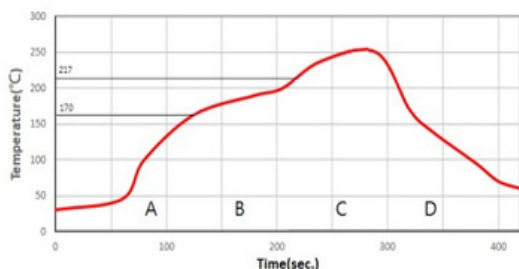
Soft & Small size and to be solder reflow compatible, and suitable for automatic processing



PI Foil thickness:
Standard: 0.126~0.266mm (0.005"~0.01")
Coating Thickness: 0.025 – 25 μ m
Tensile strength: 231 MPa @ 23°C · 139 MPa @ 200°C

FEATURES

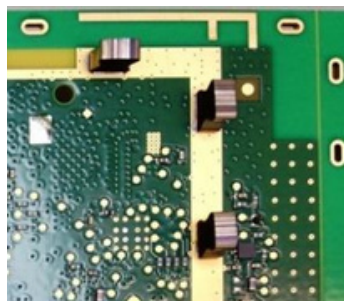
- Operation temperature up to 125°C (SLM Type)
- Excellent compressibility and compression set
- Flammability up to UL94 V1
- Dimensions starting from 1.5mm up to 13.0mm



Stage	Temperature	Time
A. Preheating Stage	Room temp. to 170°C	125sec
B. Heating/Soaking Stage	170°C to 217°C	92sec
C. Reflow Stage	Above 217°C (255°C Max.)	63sec
D. Cooling Stage	Peak temp. to room temp.	>60sec

BENEFITS

- Tape & Reel packaging for automated processing
- Pick & Place automation
- Reflow soldering processes. (peak temperature 260°C max.)
- Multiple reflow solder operations, up to 3 times



MARKETS / TARGET APPLICATIONS: SHIELDING AT THE ENCLOSURE LEVEL

- AVS: ADAS sensors, Infotainment, MCU, Lidar, ECU, Powertrain
- Consumer: Laptops/Tablets/E-sports, Smartphones, Smart Devices, White Goods
- Industrial: Automation, IOT, Measuring & Test Equipment
- Medical: Drug Delivery Devices, Ultrasound, Defibrillator, Wireless Devices
- Tele/Datacom: AAU, Wireless Infrastructure, Data Center Infrastructure

Switches & Sensors



Market / Customer Drivers

US regulation UL325
High reliability and performance
Cost effective solutions

Development Challenges:

Moisture & water proof cores/substrates, Selective gold plating,
Z-axis conductivity in various profiles in compressible substrate,
Selective conductivity

Applications

Safety System Switch
Contact Switch (Push Buttons) Sensing
Solutions (Capacitive Sensors)
Security Signaling
(Security Mats)

Progress / Actions

Miller Edge Safety Switch
Insulated Jacket Conductive Foam IP filed and sampled to customer Products developed in close collaboration with Customer
Trial Run of 5K ft. to Miller Edge in Q1 – Ramp up in Q2
Working on concepts for White goods switch



Strategic Fit:

Using core products and core competency of coatings



Market and OEMs

Home, Plant Safety, Industrial and Transit System; Doors (Miller Edge)
White Goods Switch Controls – Dish Washers, Washing Machines, Cookers (Bosch, Diehl Controls etc.)

Product Differentiation:

2 Conductive Layers separated by Perforated Foam
Rectangular and Round Cross Section
UL Rated

Risk Analysis: Familiarity

Market Familiarity: Medium Risk
Technology Familiarity: Medium Risk

