

② ESD-SP Series

Laminate Spacer Panel(Silicone Cushion Tape)

Technical Data

Product Description

Silicone and acrylic tape laminated products.

Easy to fixed construct, protect the glass, and device to prevent light, due to elastic of silicone.

ESD-SP Series excels in Heat resistance, adhesion and retentivity.

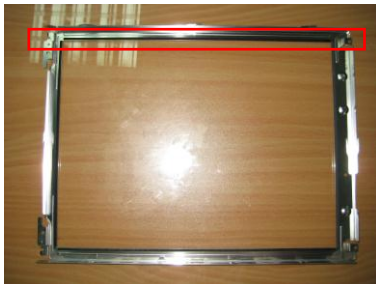
Construction



Silicone Rubber
PET Film
Acryl Adhesive

Features

1. Adhesion : >1500 g/25mm
2. Excellent impact mitigation for high elastic.
3. Heat resistance : >120°C



Application

1. LCD Display Part
2. LED, OLED Display part
3. Mobile part
4. Need a insulation and impact mitigation

Physical Property

Properties		
Hardness	Shore A	40
Specific gravity	Specific gravity meter	1.13
Tensile strength	kgf/cm ²	85
Adhesion	gf/25mm	>1800
Cohesion	gf/25mm	>900
Holding Power	mm/1hr	<1
Thickness	mm	0.3~3

① ESD-TP Series

Soft Thermal Conductivity Silicone

Technical Data

Product Description

ESD-TP Series consists of soft silicone rubber
Thermal conductivity, heat resistance, flame retardant, and insulation is excellent.

Construction



Silicone Thermal Pad

Features

1. Thermal conductivity : 1~5W/mK
2. Flame retardant : UL94 V-0
3. Heat resistance : >150°C



Application

1. LCD, LED, OLED BLU
2. Power Supply
3. MPU(Micro Process Unit)
4. CPU thermal conductor

Physical Property

Properties		
Hardness	Shore 00	30~70
Specific gravity	Specific gravity meter	2.0~3.1
Thermal conductivity	W/mK	1~5W/mK
Volume resistivity	$\Omega \cdot \text{cm}$	10^{14}
Workable Temp.	°C	-40~150
Thickness	mm	0.3~30

② ESD-SPL Series

Coated Spacer Panel(Silicone Cushion Tape)

Technical Data

Product Description

Acrylic tape coated in Silicone.

Easy to fixed construct, protect the glass, and device to prevent light, due to elastic of silicone.

ESD-SPL Series can be manufactured in a wide width, and used in the automation process.

Construction



Silicone Rubber
PET Film
Acryl Adhesive

Features

1. Adhesion : >1500 g/25mm
2. Excellent impact mitigation for high elastic.
3. Increase the production, due to wide width product



Application

1. LCD Display Part
2. LED, OLED Display part
3. Mobile part
4. Need a insulation and impact mitigation

Physical Property

Properties		
Hardness	Shore A	40
Specific gravity	Specific gravity meter	1.13
Tensile strength	kgf/cm ²	85
Adhesion	gf/25mm	>1800
Holding Power	mm/1hr	<1
Thickness	mm	0.3~3

① ESD-FTP Series

Thermal Conductive Silicone Coating Glass Fiber

Technical Data

Product Description

ESD-FTP can make up for the low-tensile of TP series with Fiber Glass.
Slimmer products suited to the heat-resistant material in the display industry.
Thermal conductivity, heat resistance, flame retardant, and insulation is excellent.

Construction



Thermal Conductivity Silicone
Glass Fiber
Thermal Conductivity Silicone

Features

1. Thermal conductivity : 1~5W/mK
2. Flame retardant : UL94 V-0
3. Easy to control of thickness : 0.2~1mm



Application

1. LCD, LED, OLED BLU
2. Power Supply
3. MPU(Micro Process Unit)
4. CPU thermal conductor

Physical Property

Properties		
Hardness	Shore 00	30~90
Specific gravity	Specific gravity meter	2.0~3.1
Thermal conductivity	W/mK	1~5W/mK
Volume resistivity	$\Omega \cdot \text{cm}$	10^{14}
Workable Temp.	$^{\circ}\text{C}$	-40~150
Thickness	mm	0.2~1

③ ESD-ACF/SIL Series

High Hardness Thermal Conductivity Silicone Sheet

Technical Data

Product Description

ESD-ACF/SIL is thermal conductivity silicone sheet
 Thermal conductivity, heat resistance, property of rubber and insulation is excellent.
 TSP is used as the ACF bonding Shock-absorbing sheet

Construction



Thermal Conductivity Silicone Sheet

Features

1. Thermal conductivity : 1.0W/mK
2. Excellent property of rubber(Tensile strength, Elongation, Tear strength)
3. Heat resistance : -60~350°C



Application

1. LCD, LED, OLED
2. Thermal conductive pad
3. ACF process protection sheet
4. Heat transfer, thermal diffusion sheet

Physical Property

Properties		
Density	g/cm ³	2.1
Thermal conductivity	W/mK	1.0
Hardness	Shore A	75
Tensile strength	kgf/cm ²	34
Elongation	%	140
Tear strength	Kgf/cm	10

ESD-ACF/PI Series

OLB Bonding Cushion Sheet

Technical Data

Product Description

Applies to the ACF bonding process.
 Thermal conductivity, heat resistance, and release characteristics is excellent.
 Teflon sheets are one-time use, but this product is doing everything possible, composite sheet.

Construction



Complex Silicone layer
Flame Resistance Polyimide film

Features

1. Thermal conductivity
2. Release characteristics
3. Heat resistance : 380°C



Application

- LCD, LED, PDP TV industry
- Mobile part
- Heat transfer sheet
- Heat resistance release sheet

Physical Property

Properties		
Thermal conductivity	W/mK	1.0W/mK
Insulation	Ωcm	10^{13}
Surface flatness	Pressure sensitive paper	good
Number of Uses	Number	>30
Specific gravity	-	1.6
Thickness	mm	0.05~0.3

ESD-ASP Series

ABS- Antistatic Silicone Pad

Technical Data

Product Description

Applies to the Tray of Glass, Module, Electronic parts, etc.

A product consist of Silicone pad attached to ABS resin for improve Mechanical strength.

Durability of abrasion, Tensile strength, and Tear strength is excellent better than foam type.

Construction



Conductivity Silicone Pad

ABS Pad

Features

1. Surface resistance : $10^6 \sim 10^{10} \Omega/\text{sq}$
2. Excellent Durability of abrasion
3. Excellent Thermal stability, Mechanical strength



Application

- Glass module Tray
- Electronic parts Tray
- Etc. Electronic parts protection sheet

Physical Property

Properties		
Surface resistance (silicone)	Ω/sq	$10^6 \sim 10^{10}$
Hardness(silicone)	Shore A	60
Tensile strength	Kgf/cm^2	>70
Thermal shock	$-30 \sim 60^\circ\text{C} * 2\text{cycle}(96\text{hrs})$	Peeling off, state of being well
Cold resistance	$-30^\circ\text{C} * 17\text{hrs}$	Not Peeling, state of being well

ESD-CSP Series

Antistatic Silicone Tape

Technical Data

Product Description

Silicone tape applied to the Tray of Glass, Module, Electronic parts, etc.
 A product consist of Only Silicone pad or laminate silicone by the double-sided tape.
 Durability of abrasion, Tensile strength, and Tear strength is excellent better than foam type.

Construction

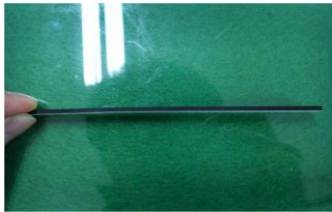


Conductivity Silicone Pad

PET Tape

Features

1. Surface resistance : $10^6 \sim 10^{10} \Omega/\text{sq}$
2. Excellent Durability of abrasion
3. Excellent Adhesion



Application

- Glass, Module Tray
- Electronic part Tray
- Electronic parts protection sheet

Physical Property

Properties		
Color	Visual	Black
Surface resistance (silicone)	Ω/sq	$10^6 \sim 10^{10}$
Hardness	Shore A	60
Tensile strength	Kg/cm^2	>70
Adhesion	$\text{gf}/25\text{mm}(\text{SUS})$	>1,800