

# TBA Electro Conductive Products

## EMI Shielding Solutions Soft Fabric Foam Gaskets

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## CONTENTS

## Page

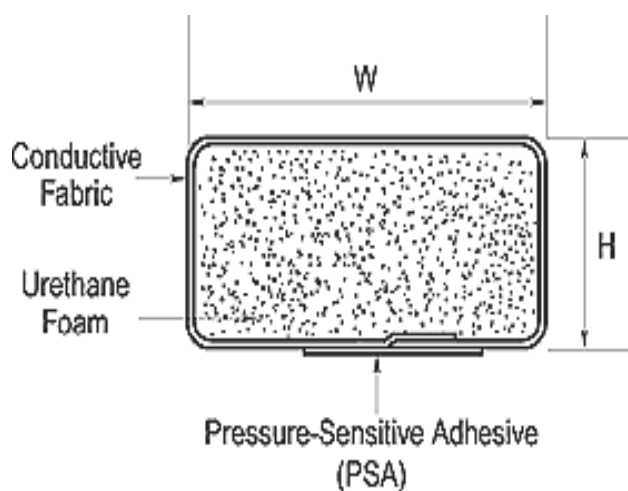
Structure	1
Specification of Raw Materials	2
Rectangular	3
Flat	4
D Shaped	5
I/O Wide Gasket	6
Square Shaped	7
V Shaped	7
J Shaped	8
P Shaped	8
Round	8
Double D Shape	9
Folding Leaf	9
Knife Edge	10
U Shaped	10
L Shaped	10
EMI LCD Cushions	11
Gold Plated Gaskets	11

# FABRIC OVER FOAM GASKETS

TBA ECP's EMI Shielding Gaskets consist of polyurethane foam combined with highly conductive fabrics. TBA ECP's gaskets are suitable for a variety of applications.

A variety of shapes and thickness are available from commonly used ones such as rectangular shapes and D-shape, and rare ones such as FL-shape (Folding Leaf) and DD-shape (Double D shape). We are able to provide gaskets with different shapes and sizes, based upon customers' requests.

## STRUCTURE



## SPECIFICATION OF RAW MATERIAL

### Conductive Fabric (WR-290-CNP-BrF)

<i>Content</i>	<i>Specification</i>
Raw Material	Polyester 100%
Composition	Woven taffeta, Ripstop
Plating	Copper + Nickel
Temperature Limit	200 °C
Electric Resistance	Less than 0.08 ohms per square inch
Shielding Effectiveness	68dB ~ 88dB from 30 MHz to 1GHz
Option UL, Flame class	94VTM-1, VTM-0
Optional Coating	Flame Retardant Thermal Adhesive (Hot melt)

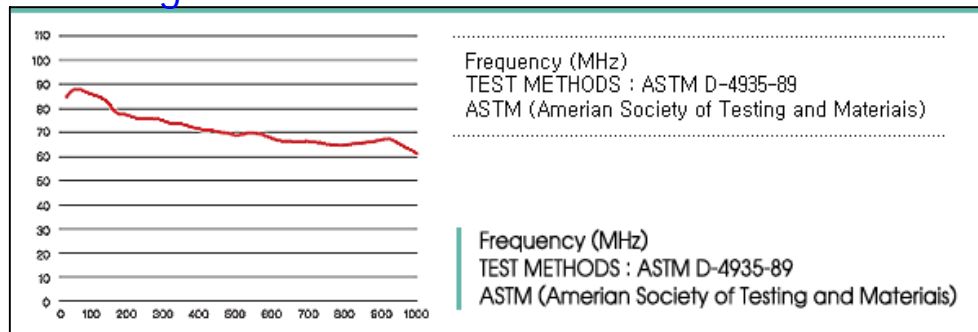
### Polyurethane

<i>Content</i>	<i>Specification</i>
Density (kg/m <sup>3</sup> )	45+3
Tear Strength (kg/cm)	Min 0.40
Tensile Strength (kg/cm <sup>2</sup> )	Min 1.50
Elongation (%)	Min 120
Compression Set (%)	Max 6
Flammability	UL94V-0

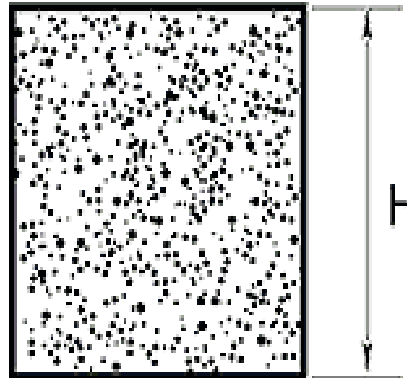
### Pressure Sensitive Adhesive Tape

Content	Specification
Thickness (mm)	0.13
Temperature Range (°C)	-40 ~ +204
Colour	Clear
Adhesion Strength	80 oz/inch (87N/100mm)
Option	Conductive Tape

### Shielding Effectiveness

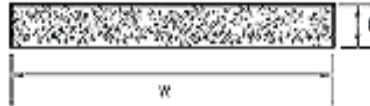
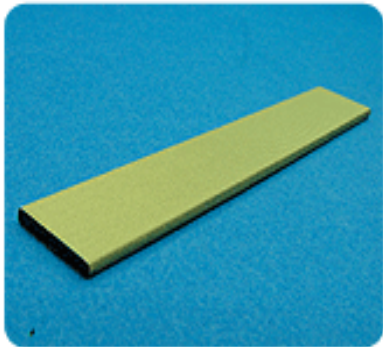


## RECTANGULAR GASKET



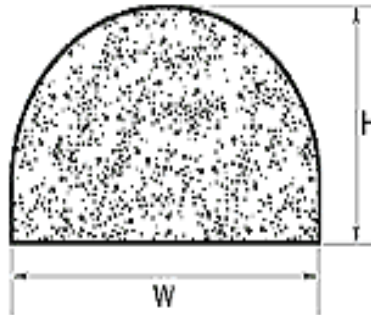
Part Number	(mm) Width	(mm) Height
410-0020-0012SFG	2.0	1.2
410-0030-0020SFG	3.0	2.0
410-0039-0030SFG	3.0	4.8
410-0048-0033SFG	4.8	3.3
410-0050-0010SFG	5.0	1.0
410-0060-0080SFG	6.0	8.0
410-0064-0032SFG	6.4	3.2
410-0095-0025SFG	9.5	2.5
410-0095-0032SFG	9.5	3.2
410-0095-0064SFG	9.5	6.4
410-0097-0033SFG	9.7	3.3
410-0100-0060SFG	10.0	6.0
410-0110-0070SFG	11.0	7.0
410-0127-0032SFG	12.7	3.2
410-0127-0064SFG	12.7	6.4
410-0127-0095SFG	12.7	9.5
410-0129-0064SFG	12.9	6.4
410-0130-0030SFG	13.0	3.0
410-0200-0060SFG	20.0	6.0
410-0254-0050SFG	25.4	5.0

## FLAT GASKET



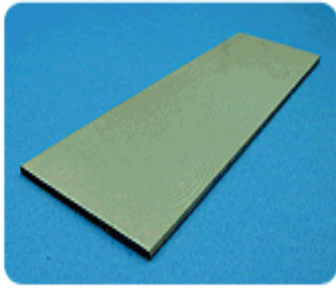
Part Number	(mm) Width	(mm) Height
420-0030-0010SFG	3.0	1.0
420-0040-0010SFG	4.0	1.0
420-0050-0010SFG	5.0	1.0
420-0050-0015SFG	5.0	1.5
420-0050-0018SFG	5.0	1.8
420-0051-0016SFG	5.1	1.6
420-0051-0020SFG	5.1	2.0
420-0056-0013SFG	5.6	1.3
420-0060-0015SFG	6.0	1.5
420-0076-0016SFG	7.6	1.6
420-0100-0016SFG	10.0	1.6
420-0102-0020SFG	10.2	2.0
420-0130-0015SFG	13.0	1.5
420-0210-0010SFG	21.0	1.0
420-0254-0016SFG	25.4	1.6

## D SHAPED GASKET



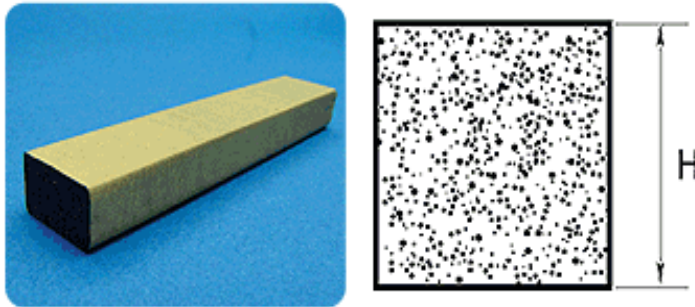
Part Number	(mm) Width	(mm) Height
440-0023-0023SFG	2.3	2.3
440-0023-0032SFG	2.3	3.2
440-0038-0015SFG	3.8	1.5
440-0038-0030SFG	3.8	3.0
440-0064-0032SFG	6.4	3.2
440-0064-0036SFG	6.4	3.6
440-0065-0034SFG	6.5	3.4
440-0095-0060SFG	9.5	6.0
440-0098-0064SFG	9.8	6.4
440-0100-0050SFG	10.0	5.0
440-0100-0100SFG	10.0	10.0
440-0254-0020SFG	25.4	2.0

## I/O WIDE GASKET



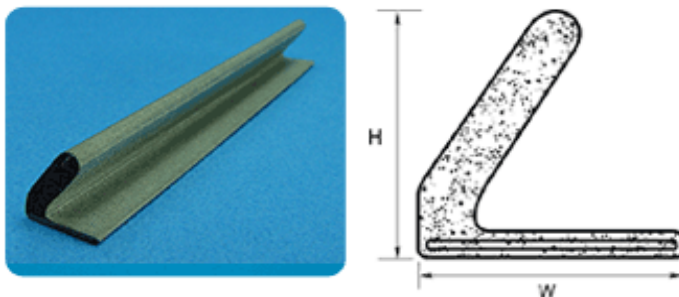
Part Number	(mm) Width	(mm) Height
425-0180-0020SFG	18.0	2.0
425-0192-0023SFG	19.2	2.3
425-0210-0024SFG	21.0	2.4
425-0230-0020SFG	23.0	2.0
425-0270-0020SFG	27.0	2.0
425-0300-0007SFG	30.0	0.7
425-0325-0045SFG	32.5	4.5
425-0400-0032SFG	40.0	3.2
425-0450-0020SFG	45.0	2.0

## SQUARE SHAPED GASKET



Part Number	(mm) Width	(mm) Height
430-0020-0020SFG	2.0	2.0
430-0030-0030SFG	3.0	3.0
430-0040-0040SFG	4.0	4.0
430-0050-0050SFG	5.0	5.0
430-0060-0060SFG	6.0	6.0
430-0095-0095SFG	9.5	9.5
430-0130-0130SFG	13.0	13.0
430-0170-0170SFG	17.0	17.0

## V SHAPED GASKET



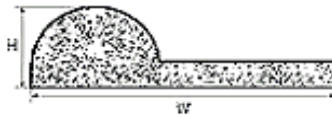
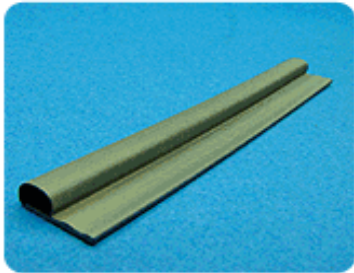
Part Number	(mm) Width	(mm) Height
450-0100-0100SFG*	10.0	10.0
450-0108-0100SFG**	10.8	10.0
450-0109-0098SFG*	10.9	9.8

\* Fabric-foam leg/rigid foam mounting leg \*\*Fabric-foam both legs

## J SHAPED GASKET

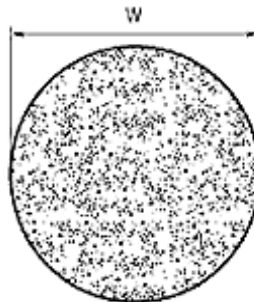
Part Number	W (mm)	H (mm)
492-0033-0053-SFG	3.3	5.3

## P SHAPED GASKET



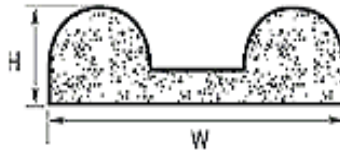
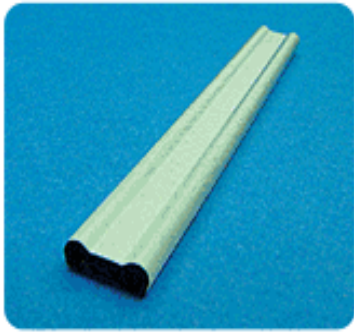
Part Number	W (mm)	H (mm)
480-0120-0040-SFG	12.0	4.0

## ROUND GASKET



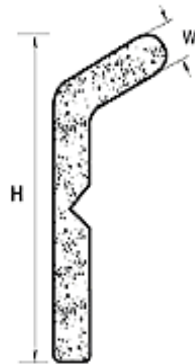
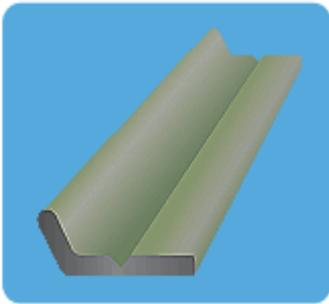
Part Number	(mm) Diameter
494-0015SFG	1.5
494-0027SFG	2.7
494-0032SFG	3.2
494-0100SFG	10.0

## DOUBLE D SHAPE



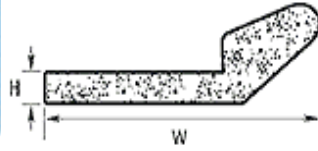
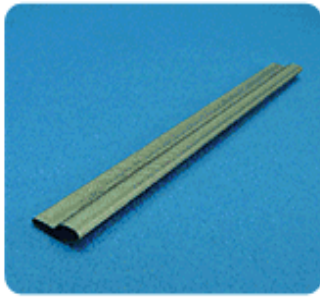
Part Number	(mm)	(mm)
	Width	Height
484-0097-0031-SFG	9.7	3.1

## FOLDING LEAF



Part Number	(mm)	(mm)
	Width	Height
493-0033-0053SFG	3.3	5.3
493-0053-0033SFG	5.3	3.3

## KNIFE EDGE GASKET

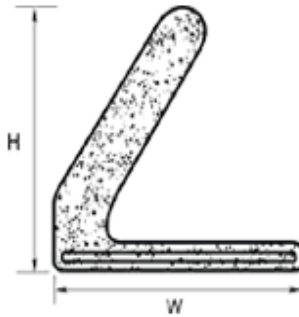
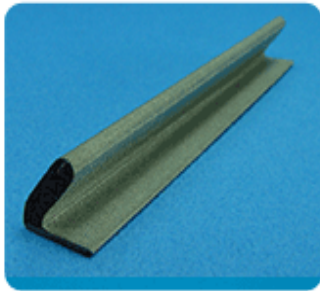


Part Number	(mm) Width	(mm) Height
470-0080-0027SFG	8.0	2.7
470-0127-0025SFG	12.7	2.5
470-0113-0027SFG	11.3	2.7

## U SHAPED GASKET

Part Number	W (mm)	H (mm)
490-0058-0033	5.8	3.3

## L SHAPED GASKET



Part Number	(mm) Width	(mm) Height
491-0033-0033SFG	3.3	3.3

## EMI LCD CUSHIONS

Previous LCD cushions were made of rubber or polyurethane, which are non-conductive. The main function of the cushions was to protect the LCD by absorbing the shock, but not to absorb or shield the electromagnetic waves or static electricity.

Considering this, TBA ECP has developed a new product. The conductive EMI LCD cushion consists of a Copper-Nickel plated foam and a pressure sensitive adhesive conductive tape. Attachment of the tape on the backside of the cushion makes it easy to mount on the device. It can be processed or fabricated easily into various shapes.

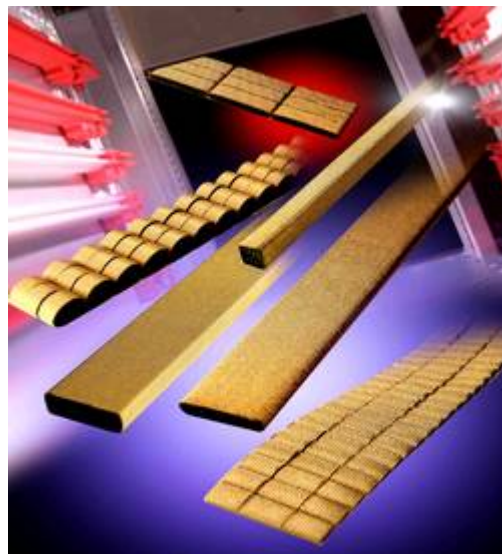
TBA ECP's EMI LCD cushion is capable of absorbing the shock and does not leave any metal powder or fabric burr. It decreases the Specific Absorption Rate (SAR) and stabilizes the internal circuit. It also improves the quality of transmission by eliminating the noise. Most importantly, it provides good shielding effectiveness.

## GOLD PLATED GASKETS

TBA ECP also offers a range of gaskets which have gold plating over a highly conductive copper and nickel substrate which provides excellent electrical characteristics necessary for shielding. Bonding the soft, user-friendly fabric to an elastomer core makes a durable gasket with superior flexibility.

The gold plated gaskets have a surface resistivity of less than 0.05 ohms/sq and give a shielding effectiveness of 70-90 dB between 30 MHz and 1 GHz

Gold plated fabric over foam gaskets give excellent abrasion resistance and antioxidation. Wide profile availability.



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