

Shield Form Gasket
(P/N: UKB10-LS10-190-5, UKB6-LN6-200-5, UKU13-3-150-8, URB10-R5-200-D, URB5-1.5-200-4, URB8-4-180-4, URB9-1-200-D, URU10-3-150-8)

(주) 뉴티씨 (NewTC)
<http://www.NewTC.co.kr>

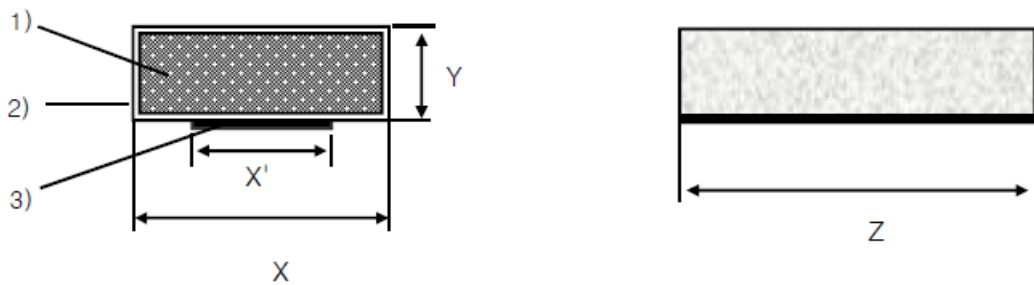
1 Shield form gasket

1-1 Description

실드폼 가스켓은 탄성체 주위를 전기전도성 섬유로 감싼 차폐용 부품으로서 전자장비 내부의 이음매 또는 틈새에 적용되는 효과적인 차폐용 부품입니다. 저렴한 가격, 다양한 형태로 고객 사양에 맞춰 적용시킬 수 있습니다. 고객이 요구하는 대부분의 차폐, 접지, ESD 등의 문제를 해결할 수 있으며 이것은 디자인 설계를 위한 비용절감에 탁월한 효과를 볼 수 있습니다.

1-2 Characteristics

- ◆ Shielding Effective : min. 60dB
- ◆ Surface resistivity : max. 0.08Ω/m
- ◆ Operating temperature range : max 105℃



Note

1. Surface Resistance : Max. 0.1Ω/sq

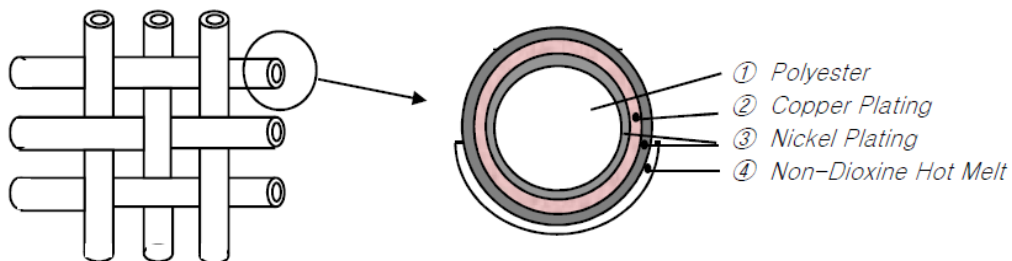
NO	Material Name	Specification	Material	Remark	
1)	Elastomer	Density : 45±3Kg/m ³	Polyurethane Sponge	Color : White/Yellow	
2)	Conductive Fabric	Thickness : 0.1 mm (Typical Value)	Ni-PET platin	P/N : M2-Rip CNRF	
3)	Conductive Adhesive Tape	Adhesive Strength : Min. 1,500gf/25mm	CP Paper	P/N : KT- 4112D	
DATE	Scale	Unit	General Tolerance	Title	Shield form gasket
2009.6.15	N/S	mm	/		
Designed by	Reviewed by	Approved by	Pate No.	URU-X-Y-Z-X'	
	/				
			Drawing No.		

2 Conductive Fabric (P/N : M2Rip-CNRF)

2-1 Material & Construction (Woven type)

The Conductive Fabric is coated Nickel and Copper over Polyester Fabrics. The base layer is the highly conductive copper, with an outer layer of nickel for corrosion resistance.

Nickel/Copper coated Polyester Fabrics offer excellent surface conductivity, shielding effectiveness, and corrosion resistance for a variety of application. The Conductive Fabric is recommended to obtain high EMI shielding at frequency range from 500KHz to 10GHz.

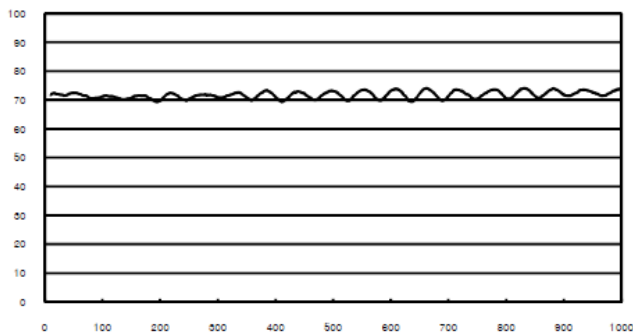


2-2 Characteristics

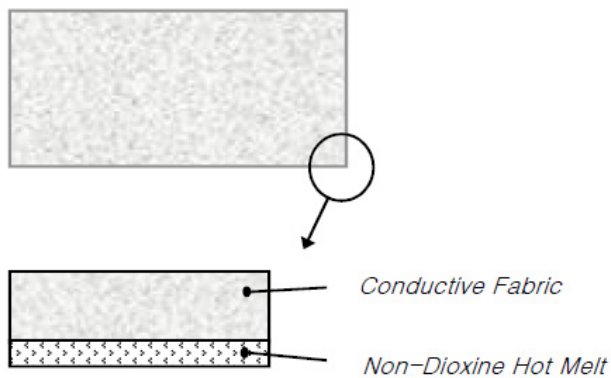
Item	Unit	Spec.	Reference
Width	mm	1000	
Thickness	mm	0.13	
Surface Resistivity	Ω m	0.08	One side insulation
Tensile Strength	kgf	50/55	ASTM D 5034 (Grab Method)
Elongation	%	27.6/30.8	ASTM D 5034 (Grab Method)
Tear Strength	gf	1108/503	ASTM D 1424 (Pendulum Method)
Flammability		94VTM-0	UL (E206305)

◆ Conductive Foam Conductive Foam

Shielding Effectiveness



◆ Appearance



3 Polyurethane Foam

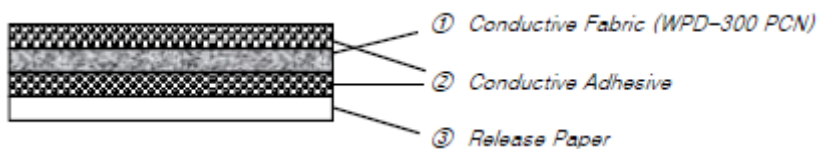
3-1 Material & Characteristics

Item	Unit	Spec.	Test Method
Material	-	Polyurethane Foam	Hard Elastomer
Density	kg/m ³	45±5	KS M 6672
Tensile Strength	kg/cm ²	Min. 2.0	KS M 6579
Elongation at break	%	Min. 80	KS M 6579
Tear Strength	kg/cm	Min. 0.4	ASTM D 1564
Compression Set(%)	%	Max.6	KS M 6672
Color		White / Yellow	

4 Conductive Adhesive Tape (P/N : KT-4112D)

4-1 Material & Characteristics

Item	Class	Reference
① Base Material	Conductive Fabric	D.T.Y
② Adhesive	Conductive Adhesive	-
③ Release Paper	CP Paper	90 g/sq, Double Side PE, One Side Release Treated
Total Thickness		0.12 (±0.02) mm



4-2 Conductive Adhesive Resin Composition

- ◆ The Principle ingredient : Acrylic ester polyol copolymer
- ◆ Modified chemical material : modified nickel & carbon pigment

4-3 Characteristic

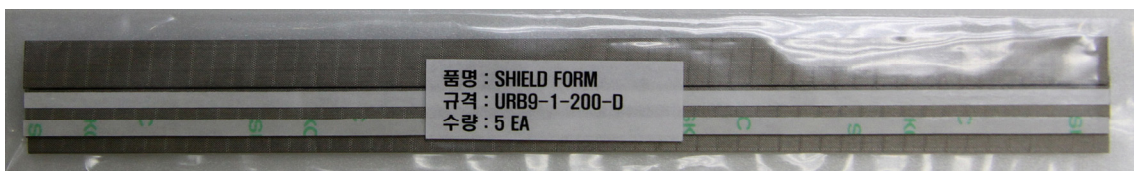
Item	Unit	Spec.	Reference
Adhesive power(180°peel)	gf/25mm	Min. 1500	PET Film (25 μ m) / SUS 304 Plate
Holding Power	sec	more than 3,600	PET Film (25 μ m) , 40 $^{\circ}$ C , 500 g
Ball Tack	Ball No.	7 \pm 1	J. DOW Method
Electric Resistivity	Ω /25mm ²	less than 0.5	at 25 $^{\circ}$ C , 50% R.H.
Temp Range	$^{\circ}$ C	-30 ~ 105	



<SHIELD FORM: URU10-3-150-8>



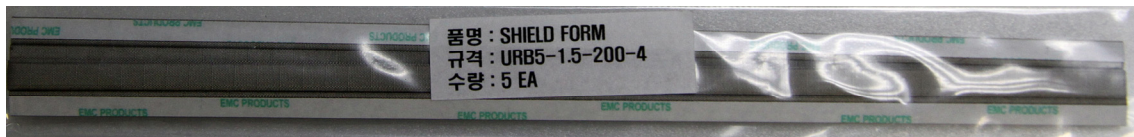
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<SHIELD FORM_URB8-4-180-4>



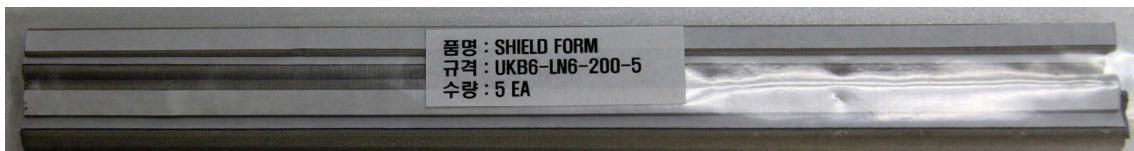
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<SHIELD FORM_UKU13-3-150-8>



<SHIELD FORM_UKB10-LS10-190-5>



<SHIELD FORM_UKB6-LN6-200-5>

(주)뉴티씨(NEWTC)에서 판매하는 품목						
품명	구분	규격	길이(mm)	수량	용도	
SHIELD FORM	TAFETA	비난연	UKB10-LS10-190-5	190	5	전계용
	TAFETA	비난연	UKB6-LN6-200-5	200	5	전계용
	TAFETA	난연	UKU13-3-150-8	150	5	전계용
	RIP	비난연	URB10-R5-200-D	200	5	전계용
	RIP	비난연	URB5-1.5-200-4	200	5	전계용
	RIP	비난연	URB8-4-180-4	180	5	전계용
	RIP	비난연	URB9-1-200-D	200	5	전계용
	RIP	난연	URU10-3-150-8	150	5	전계용
TAPE	ALRUMINUM	가공	UK-100-50-100		10	전계용
		를	UK-100-20	50	1	전계용
	COPPER	가공	UK-101-50-100		10	전계용
		를	UK-101-20	25	1	전계용
	C/FABRIC	가공	UK-102-50-100		10	전계용
		를	UK-102-20	50	1	전계용
	C/FABRIC(M)	가공	UK-106-50-100		10	전, 자계용
		를	UK-106-20	50	1	전, 자계용
	INSULATOR	가공	UK-300-50-100		10	절연용
		를	UK-300-20	50	1	절연용
		가공	UK-300-210-300		2	절연용
	SHIELD CUSHION	시트	UCC-1.3-100-200		1	전계용
ABSORBER	시트	USOB-1.0-V2-A4		1	전계용	
THERMAL SHEET	시트	UTH-220-220-1T		1	열전용	