

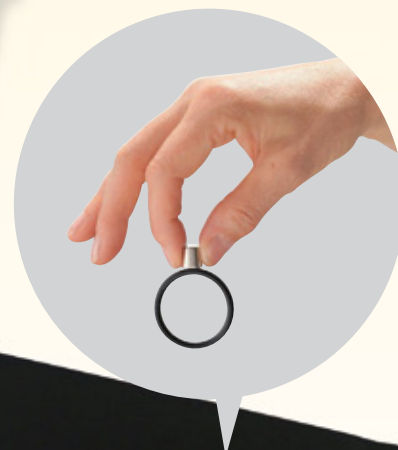
Wow?

Rubber and resin stick
to magnet?

TSUBACO

TSUBAKIMOTO KOGYO
co.,Ltd.

Epochal rubber and resin product
which respond to metal detectors.



Never existed, new idea to secure food safety.

MP Foods series

The theme of MP Foods series is 'Safety and Reassurance' in food factory

- Fine metal powder which doesn't harm human body is kneaded into rubber and resin
Small broken pieces will be reacted on metal detector and X ray.

※Passed food hygiene test.

- Conformed to food hygiene test.
- More than 300 companies, working in.



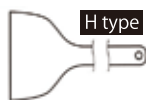
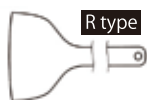
**Conformed to
food hygiene
test**

MP Foods spatula series

Silicon scraper

We have 2 kinds of edged tool R type and H type.
R type is elliptical, H type is liner type.

Material:Silicon,
Available temperature:Up to 180°C



Silicon scraper



Color Silicon scraper

Type	Width(mm)	Length(mm)	Edge shape	Color
MPF-SR-LL	130	350	Ellipse	Black
MPF-SR-LS	130	210	Ellipse	Black
MPF-SH-LL	130	350	Straight	Black
MPF-SH-LS	130	210	Straight	Black
MPF-SH-SS	97	200	Straight	Black

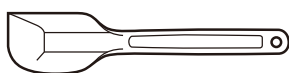
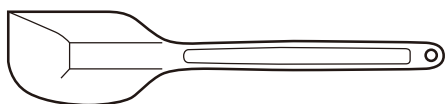
Type	Width(mm)	Length(mm)	Edge shape	Color
MPF-SR-LL-*	130	350	Ellipse	Blue/Red/Yellow/Green
MPF-SR-LS-*	130	210	Ellipse	Blue/Red/Yellow/Green
MPF-SH-LL-*	130	350	Straight	Blue/Red/Yellow/Green
MPF-SH-LS-*	130	210	Straight	Blue/Red/Yellow/Green
MPF-SH-SS-*	97	200	Straight	Blue/Red/Yellow/Green

*Means the color code. C1:Blue C2:Red C3:Yellow C4:Green Ex.) MPF-SR-LL-C1 (Blue)

Silicon clean spatula

One molding hygienic spatula for easy washing. Material:Silicon,
Available temperature:Up to 180°C

Large	Medium	Small
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Type	Width(mm)	Length(mm)	Color
MPF-CH-L-BK	82	385	Black
MPF-CH-L-BL	82	385	Blue
MPF-CH-L-RE	82	385	Red
MPF-CH-L-YE	82	385	Yellow
MPF-CH-L-GR	82	385	Green

Type	Width(mm)	Length(mm)	Color
MPF-CH-M-BK	54	253	Black
MPF-CH-M-BL	54	253	Blue
MPF-CH-M-RE	54	253	Red
MPF-CH-M-YE	54	253	Yellow
MPF-CH-M-GR	54	253	Green

Type	Width(mm)	Length(mm)	Color
MPF-CH-S-BK	31	253	Black
MPF-CH-S-BL	31	253	Blue
MPF-CH-S-RE	31	253	Red
MPF-CH-S-YE	31	253	Yellow
MPF-CH-S-GR	31	253	Green

Plastic top chain

Chain material is difficult chipping
and not scattered if given the shock.
There are two kinds to meet dry/wet application.

Product name	Type	Type	Color
Plastic top chain	Straight	TTP***	Black
Plastic top chain	Curve	TTUP***	Black

*** Enter size and spec for which please contact us.

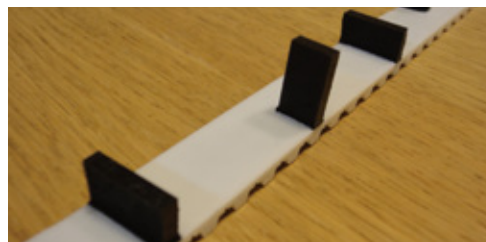


Urethane toothed belt

Profile(Urethane) which can be reacted
by metal detectors is welded on belt.

Product name	Type	Type	Color
Urethane tooth belt attached	Profile	BU***	Black (Profile)

*** Enter size and spec please contact us.



Resin processed products

We can make
various shape.

Material: Ultra high
molecular weight
polyethylene

Type	Application
MPF-UH-*	Cutting board, Bearing Scraper, Gear, Guide rail and so on

Drawing is needed to make these parts.



[Sample]

Resin molding

Parts for food machine is made
by injection molding machine.

Type	Application
MPF-IM-*	Parts for food machine.

It's necessary to make the mold.

- The figures mentioned on this leaflet are just for reference and not for guaranty.
- Reactivity may be different depending on setting and accuracy of metal detector, and X ray inspection machine.
- Please note that we don't take any responsibility or liability for damage or loss caused though using this product.
- There is a possibility of change the specification without any prior notice.

For customers considering MP foods products.

Detectable size will be changed depends on setting of detector machine and physical property.
If you are considering to use MP Foods products, please do test under your responsibility and confirm whether its safety and application purpose is suitable or not.

Distributor



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O ring

Can use as like conventional O ring.

Material:4kinds
(EPDM,Silicon,
Fluorine rubber,NBR)
Please choose material
for your purpose.

Type	Size	Strength	Hardness	Color
MPF-RO-P3-*	JIS standard	JIS standard	Hs 70	Black
MPF-RO-P300-*				
MPF-RO-G25-*	JIS standard	JIS standard	Hs 70	Black
MPF-RO-G300-*				

*Means material code E:EPDM S:Silicon F:Fluorine N:NBR



Rubber ball

Built to order.

Material:Silicon

Type	Diameter(mm)	Color	Type	Diameter(mm)	Color
MPF-RB-25	φ25	Black	MPF-RB-25-C1	φ25	Blue
MPF-RB-30	φ30	Black	MPF-RB-30-C1	φ30	Blue
MPF-RB-32	φ32	Black	MPF-RB-32-C1	φ32	Blue
MPF-RB-40	φ40	Black	MPF-RB-40-C1	φ40	Blue

Example) MPF-RB-25-C1 (Blue)



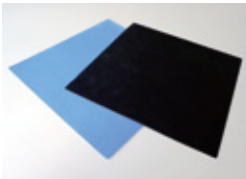
Rubber sheet

Reactable for metal detector.

Material:4kinds(EPDM,Silicon,Fluorine rubber ,
NBR2 colors(Black and Blue)

Type	Size(mm)	Thickness(mm)	Color	Type	Size(mm)	Thickness(mm)	Color
MPF-RS-1-*	300x300	1	Black	MPF-RS-1-*-C1	300x300	1	Blue
MPF-RS-2-*	300x300	2	Black	MPF-RS-2-*-C1	300x300	2	Blue
MPF-RS-3-*	300x300	3	Black	MPF-RS-3-*-C1	300x300	3	Blue

*Means material code E:EPDM S:Silicon F:Fluorine N:NBR Example) MPF-RS-1-E-C1 (Material:EPDM・Color:Blue)

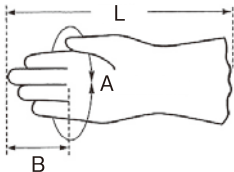


[Sample]

Grove can react by metal detector

Good workability as there are nonslip sunlaces on palm
and fiugers in palm and fingers.

Material:PVC



Size	L(mm)	A(mm)	B(mm)	Color
SS	300	181	71	Black
S	300	190	71	Black
M	300	206	80	Black
L	300	219	81	Black



Polyethylene spatula

Material which difficult to stick is used.

Material: Polyethylene,
Available temperature: Up to 60°C

Type	Width(mm)	Length(mm)	Color	Unit
MPF-PS-L-*	130	220	Blue/Red/Yellow/Green	5/set
MPF-PS-S-*	97	203	Blue/Red/Yellow/Green	5/set

*Means the color C1:Blue C2:Red C3:Yellow C4:Green Ex.) MPF-PS-L-C1 (Blue)



Nylon spatula

Superline wear resistance compaled with polyethylene spatula.

Material: Nylon ,
Available temperature: Up to 80°C

Type	Width(mm)	Length(mm)	Color	Unit
MPF-NHL-*	130	220	Blue/Red/Yellow/Green	5/set
MPF-NHS-*	97	203	Blue/Red/Yellow/Green	5/set

*Means the color C1:Blue C2:Red C3:Yellow C4:Green Ex.) MPF-NHL-C1 (Blue)



Triangle nylon spatula

Can clean the flat and edge portion.

Material: Nylon ,
Available temperature: Up to 80°C

Type	Width(mm)	Length(mm)	Color	Unit
MPF-NSQH-BL	55	225	Blue	10/set



MP Foods insulation lock series

Insulation lock

Better for workability safety, and economy compared to metal type.

Usage Environment: Indoor ,
Available temperature : -40°C~+85°C
Flame retardance : Equivalent UL 94V-2

Type	Width (mm)	Height (mm)	Loop tensile strength (min)	Unity diameter (Maximum)	Repeatable type	Color
MPF-IL-100	100	3.5	60N	22φ	100	Black
MPF-IL-150	153	4.4	110N	36φ	100	Black
MPF-IL-200	202	5.5	150N	50φ	100	Black
MPF-IL-300	301	5.0	150N	80φ	100	Black



MP Foods packing series

Can remove and reuse.

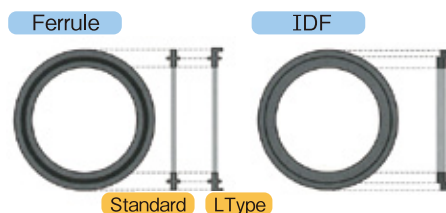
Usage Environment: Indoor ,
Available temperature : -40°C~+85°C
Flame retardance : Equivalent to UL 94V-2

Type	Width(mm)	Height(mm)	Loop tensile strength (min)	Unity diameter (Maximum)	Quality /1pack	Color
MPF-ORF-200	203	8.8	150N	5~45	100	Black
MPF-ORF-300	303	8.8	150N	5~78	100	Black



MP Foods packing series

Easy handing and wide range availability compared to stainless steel or fluorine resin products.



Packing ferrule

Material : 4kinds (EPDM,Silicon,Fluorine rubber,NBR) Please choose material for your purpose.

◆ Standard(Black)

Type	Shape	Inner diameter(mm)	Outer diameter(mm)	Color
MPF-RPS-10A-*	Standard	14.2	33.8	Black
MPF-RPS-15A-*	Standard	17.7	33.8	Black
MPF-RPS-1.0S-*	Standard	23.8	50.5	Black
MPF-RPS-1.5S-*	Standard	37.0	50.5	Black
MPF-RPS-2.0S-*	Standard	49.0	64.0	Black
MPF-RPS-2.5S-*	Standard	59.7	76.8	Black
MPF-RPS-3.0S-*	Standard	72.5	90.5	Black
MPF-RPS-3.5S-*	Standard	85.3	105.5	Black
MPF-RPS-4.0S-*	Standard	97.8	118.4	Black
MPF-RPS-4.5S-*	Standard	108.5	129.8	Black
MPF-RPS-5.0S-*	Standard	134.0	154.8	Black
MPF-RPL-10A-*	LType	14.2	35.8	Black
MPF-RPL-15A-*	LType	17.7	35.8	Black
MPF-RPL-1.0S-*	LType	23.2	52.3	Black
MPF-RPL-1.5S-*	LType	37.0	52.5	Black
MPF-RPL-2.0S-*	LType	48.8	66.2	Black
MPF-RPL-2.5S-*	LType	60.5	79.7	Black
MPF-RPL-3.0S-*	LType	73.3	93.2	Black
MPF-RPL-3.5S-*	LType	85.3	107.8	Black
MPF-RPL-4.0S-*	LType	98.6	121.2	Black
MPF-RPL-4.5S-*	LType	108.5	131.8	Black
MPF-RPL-5.0S-*	LType	134.0	156.8	Black
MPF-RPL-6.0S-*	LType	159.4	184.8	Black
MPF-RPL-8.0S-*	LType	208.5	235.3	Black

*Means material code. E:EPDM S:Silicon F:Fluorine N:NBR

◆ Color packing

Type	Shape	Inner diameter(mm)	Outer diameter(mm)	Color
MPF-RPS-10A-*	Standard	14.2	33.8	Blue/Red/Green
MPF-RPS-15A-*	Standard	17.7	33.8	Blue/Red/Green
MPF-RPS-1.0S-*	Standard	23.8	50.5	Blue/Red/Green
MPF-RPS-1.5S-*	Standard	37.0	50.5	Blue/Red/Green
MPF-RPS-2.0S-*	Standard	49.0	64.0	Blue/Red/Green
MPF-RPS-2.5S-*	Standard	59.7	76.8	Blue/Red/Green
MPF-RPS-3.0S-*	Standard	72.5	90.5	Blue/Red/Green
MPF-RPS-3.5S-*	Standard	85.3	105.5	Blue/Red/Green
MPF-RPS-4.0S-*	Standard	97.8	118.4	Blue/Red/Green
MPF-RPS-4.5S-*	Standard	108.5	129.8	Blue/Red/Green
MPF-RPS-5.0S-*	Standard	134.0	154.8	Blue/Red/Green
MPF-RPL-10A-*	LType	14.2	35.8	Blue/Red/Green
MPF-RPL-15A-*	LType	17.7	35.8	Blue/Red/Green
MPF-RPL-1.0S-*	LType	23.2	52.3	Blue/Red/Green
MPF-RPL-1.5S-*	LType	37.0	52.5	Blue/Red/Green
MPF-RPL-2.0S-*	LType	48.8	66.2	Blue/Red/Green
MPF-RPL-2.5S-*	LType	60.5	79.7	Blue/Red/Green
MPF-RPL-3.0S-*	LType	73.3	93.2	Blue/Red/Green
MPF-RPL-3.5S-*	LType	85.3	107.8	Blue/Red/Green
MPF-RPL-4.0S-*	LType	98.6	121.2	Blue/Red/Green
MPF-RPL-4.5S-*	LType	108.5	131.8	Blue/Red/Green
MPF-RPL-5.0S-*	LType	134.0	156.8	Blue/Red/Green
MPF-RPL-6.0S-*	LType	159.4	184.8	Blue/Red/Green
MPF-RPL-8.0S-*	LType	208.5	235.3	Blue/Red/Green

*Means the color code. E-C1:EPDM (Blue) S-C2:Silicon (Red) N-C4:NBR (Green)
Ex.) MPF-RPS-1.0S-E-C1 (Material:EPDM・Color:Blue)

Packing IDF

Material : 4kinds (EPDM,Silicon,Fluorine,NBR) Please choose material for your purpose.

◆ Standard(Black)

Type	Shape	Inner diameter(mm)	Outer diameter(mm)	Color
MPF-RPI-1.0S-*	IDF	23.2	32.8	Black
MPF-RPI-1.5S-*	IDF	35.6	46.0	Black
MPF-RPI-2.0S-*	IDF	48.0	60.0	Black
MPF-RPI-2.5S-*	IDF	60.0	73.2	Black
MPF-RPI-3.0S-*	IDF	72.8	85.4	Black
MPF-RPI-3.5S-*	IDF	85.6	99.5	Black
MPF-RPI-4.0S-*	IDF	98.1	112.5	Black

*Means material code. E:EPDM S:Silicon F:Fluorine N:NBR

◆ Color packing

Type	Shape	Inner diameter(mm)	Outer diameter(mm)	Color
MPF-RPI-1.0S-*	IDF	23.2	32.8	Blue/Red/Green
MPF-RPI-1.5S-*	IDF	35.6	46.0	Blue/Red/Green
MPF-RPI-2.0S-*	IDF	48.0	60.0	Blue/Red/Green
MPF-RPI-2.5S-*	IDF	60.0	73.2	Blue/Red/Green
MPF-RPI-3.0S-*	IDF	72.8	85.4	Blue/Red/Green
MPF-RPI-3.5S-*	IDF	85.6	99.5	Blue/Red/Green
MPF-RPI-4.0S-*	IDF	98.1	112.5	Blue/Red/Green

*Means the color code. E-C1:EPDM (Blue) S-C2:Silicon (Red) N-C4:NBR (Green)
Ex.) MPF-RPI-1.0S-E-C1 (Material:EPDM・Color:Blue)