


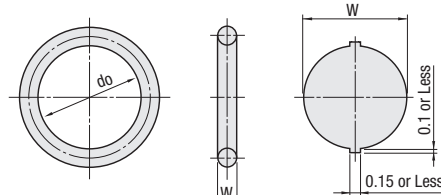
High Chemical Resistant / High Heat Resistant Seals




Type	Grade	Color	Max. Operating Temp.	Material
MPPEM	Chemical Resistant Grade	Black	260°C	Perfluoro Rubber
MPPEJ	Special Heat Resistant Grade	Black	320°C	

■ Features

- ① Excellent resistances required in extreme conditions such as strong acid, strong alkali, amines, steam and high temperature polar solvent (260 ~ 320°C).
- ② Has the properties of Low gas precipitation, Low Out-gas, etc. and can be used under high vacuum.
- ③ Heavy metal and molding agents are not used in the process of production.





■ P Series (For Mounting, Dynamic)

Part Number		Nominal Number	W	I.D.		Matching Material		MPPEM		MPPEJ			
Type	No.			do	MPPEM, MPPEJ Tolerance	d	Tolerance	D	Tolerance	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
								1 - 19 pc (s)	20~50	1 - 19 pc (s)	20~50		
MPPEM (Chemical Resistant Grade)	3	3	1.9±0.08	2.8	±0.16	3	0	6	+0.05				
	4	4		3.8		4		7					
	5	5		4.8		5		8					
	6	6		5.8	6	9							
	7	7		6.8	7	10							
	8	8	7.8	±0.19	8	11							
	9	9	8.8		12								
	10	10	9.8		13								
	11	11	10.8	±0.21	11	15							
	12	12	11.8		16								
	14	14	13.8		18								
	MPPEJ (Special Heat Resistant Grade)	15	15	2.4±0.09	14.8	±0.22	15	0	19	+0.06			
		16	16		15.8		16		20				
		18	18		17.8		18		22				
		20	20		19.8		20		24				
21		21	20.8		21		25						
22		22	21.8		±0.28	22	26						
24		24	23.7			24	30						
25		25	24.7			25	31						
26		26	25.7		±0.31	26	0		32		+0.08		
28		28	27.7			28	34						
29	29	28.7	29	35									
30	30	29.7	30	36									

■ Specifications

Type	MPPEM	MPPEJ
	Chemical Resistant Grade	Special Heat Resistant Grade
Color	Black	Black
Hardness (Shore)	75	74
Tensile Strength (kgf/cm²)	216	161
Elongation (%)	183	205
Operable Temperature Range (°C)	260	320
Compression Set 200°Cx70h(%)	21	19
230°Cx70h(%)	31	26



Ordering Example

Part Number
MPPEM5

■ Chemical Resistance Data (MPPEM Chemical Resistant Grade)

[Evaluation] A: ΔV = ~ 5%, B: 5 ~ 20%, C: 21 ~ 35%

Chemical	Soaking Temperature (°C)	Soaking Time (Day)	Volume Change (ΔV%)
Sodium Hydroxide (50%)	150	7	A
Ammonia Water (35%)	45	20	A
Ammonia	100	7	A
N-Butylamine	23	7	A
Formic Acid (12%)	100	7	B
Chlorosulfonic Acid	23	7	A
Hydrochloric Acid (37%)	24	28	B
Nitric Acid (65%)	40	30	B
Sulfuric Acid (94%)	70	14	A
Phosphoric Acid (45%)	60	7	A
Hydrogen Sulfide	70	7	A
Hydrogen Fluoride (50%)	80	7	B
MIBK (Methyl Isobutyl Ketone)	118	7	A
Dimethylformamide	153	7	B
1,2-Dichlorobenzene	180	7	B
Chlorobenzol	100	7	A
R123 (CFC)	24	28	C
Steam	121	7	A
Phenol	220	7	A
Ethylene Oxide	23	7	A

*Data above are not guaranteed values but experimental value.
For actual use, confirm the applicability under specific conditions.