




# 材質選擇

	混合物	廠品名	化學名
<b>PLASTICS</b>			
	Polyamideimide (PAI)	TORLON	
	Polybenzimidazole (PBI)	CELAZOLE	-(C7 H6 N2)-
	Polycarbonate (PC)		-COOC6H5C(CH3)2C6H O-
	Polyethylene (PE)		-C H2 CH2-
	Polyetheretherketone (PEEK)	KETRON	-C6H5-CO-C6 H5-O-C6 H-
	Polyetherimide (PEI)	ULTEM	
	Polyamide (PI)	DURATRON	N(C2O2)C6H5(C2O2)N-R-
	Polypropylene (PP)		-CH2CH(CH3)-
	Polyphenylenesulfide (PPS)	TECHTRON	
	Polyvinylidene Fluoride (PVDF)		-CH2CF2-
	Flourinated Ethylene-Propylene (FEP)	TEFLON FEP	-CF2CF2-CF2CF(CF3)-
	Perfluoroalkoxy (PFA)	TEFLON PFA	-CF2CF2-CF2CF(OCF3)-
	Polytetrafluoroethylene (PTFE)	TEFLON PTFE	-CF2CF2-
	Nitrile (Buna-N)	PARACRIL ,CHEMIGUM	-CH2CH=CH(CH2)2CHCH(CN)-
	Ethylene-Propylene Diene	VISTALON ,NORDEL	-CH2CH2-CH2CH(CH3)-
	Silicone	SILASTIC ,SILPLUS	-OSi(CH3)2-OSi(CH3)(CH=CH2)-
		SILASTIC LS,FSE	-OSi(CH3)(CH=CH2)-
			-OSi(CH3)(CH2CH2CF3)-
	Fluoroelastomer A	VITON ,FLUOREL	-CH CF2-CF2CF(CF3)-
	Fluoroelastomer B		-CH2CF2-CF2CF(OF3)-CF2CF2-
	Fluoroelastomer GF		-CH2CF2-CF2CF(OCF3)-CF2CF2-
	Fluoroelastomer ETP	VITON ,ETP	-CF2CF2-CH2CH(CH3)-
	Fluoroelastomer TFE/P	AFLAS	-CF2CF2-CF2CF(OCFnCF)-
	Perfluoroelastomer	KT,CHEMRAZ	
		KALREZ	
<b>OTHER</b>			
	Siliconefluro	SIFEL	Si(CF2-CF-O)Si


# KTseal-SERIES O-RING 特性簡介

KTseal Compound	KT6290 KT6280 KT6240 KT6260 KT6261 KT6262	VITON	F-SILICON	SILICON
ASTM D1418	Spec FKM	FKM	FVMQ	VMQ
Durometer Hardness, Shore A, points $\pm 5$ (ASTM D2240)	60 $\pm$ 5 75 $\pm$ 5 90 $\pm$ 5	60 $\pm$ 5 75 $\pm$ 5 90 $\pm$ 5	75 $\pm$ 5	75 $\pm$ 5
Color	White/Black	Black/Brown/Green	Blue	Red/CL
Low Temperature~Max. Temperature	-10°C~240°C	-20°C~200	-20°C~180	-20°C~230
picture				

KTseal Compound	EPDM	NBR	VITON 包覆式 (PFA/FEP)	SILICON 包覆式 (PFA/FEP)
ASTM D1418	EPDM	NBR	VT+PTFE	SI+PTFE
Durometer Hardness, Shore A, points $\pm 5$ (ASTM D2240)	75 $\pm$ 5	75 $\pm$ 5	90 $\pm$ 5	90 $\pm$ 5
Color	Black/Gray	Black	Black	Red
Low Temperature~Max. Temperature	-20°C~150	-20°C~120	0°C~200	0°C~200
picture				

# KTseal-SERIES O-RING 特性簡介

KTseal Compound	KT8108 KT8118	KT8106 KT8116	KT8107	KT8207 KT8217	KT8507 KT8517
FFKM/FKM (ASTM D1418)	FFKM	FFKM	FFKM	FFKM	FFKM
Durometer Hardness, Shore A, points $\pm 5$ (ASTM D2240)	80 $\pm$ 5	60 $\pm$ 5	70 $\pm$ 5	75 $\pm$ 5	75 $\pm$ 5
Color	White/Black	White/Black	Black	White/Black	White/Black
Low Temperature~Max. Temperature	-20°C~300°C	-20°C~300°C	-20°C~300°C	-20°C~280°C	-20°C~260°C
Wet製程	Excellent	Excellent	Excellent	Good	Excellent
氣體製程	Excellent	Excellent	Excellent	Vary good	Good
picture					

KTseal Compound	KT8607 KT8617	KT8609 KT8619	KT8707 KT8717	KT8807 KT8817	KT8847
FFKM/FKM (ASTM D1418)	FFKM	FFKM	FFKM	FFKM	FFKM
Durometer Hardness, Shore A, points $\pm 5$ (ASTM D2240)	75 $\pm$ 5	90 $\pm$ 5	75 $\pm$ 5	75 $\pm$ 5	80 $\pm$ 5
Color	White/Black	White/Black	White/Black	White/Black	Brown
Low Temperature~Max. Temperature	-20°C~260°C	-20°C~260°C	-20°C~280°C	-20°C~280°C	-10°C~250°C
Wet製程	Excellent	Excellent	Excellent	NO COMMENT	NO COMMENT
氣體製程	Good	Good	NO COMMENT	Excellent	Excellent
picture					

## O-ring 的規格?

- O-ring是型式最簡單且被廣泛使用之密封圈。
- 定義 O-ring的參數有材料和尺寸。
- 材料變數為橡膠種類,配方,硬度。
- 一般尺寸的定義方式為：外徑=內徑 +2倍線徑(單位:mm)

