YOSON
SEALING SOLUTIONS

Yoson Seals Company

Material Data Sheets of FFKM 6375

Material type: Black perfluoroelastomer compound, Shore A 75 hardness.

Material Characteristics:
FFKM 6375 has excellent chemical resistance, good mechanical properties and excellent heat resistance to a wide range of chemical media, including acids, alkalis, amines, water vapor, ethylene oxide and so on. The products can function reliably for a long time in contact with various corrosive industrial solvents and electronic grade chemical reagents.

Working temperature: -10℃～+260 ℃.

Application: FFKM 6375 is used in chemical, petrochemical, semiconductor, pharmaceutical, oil and gas extraction, aerospace and other applications.

PHYSICAL PROPERTIES

Performance specification	Unit	Test standard	Test Values
density	g/cm3	ASTM D-792	1.99
Shore A hardness	pt	ASTM D-2240	74
Tensile strength	MPa	ASTM D-412	23.1
M100	MPa	ASTM D-412	8.7
Elongation	%	ASTM D-412	180
Permanent deformation， 70hr@200℃ 214# O-Ring	%	ASTM D-395	13.7

Chemical resistance	
Immersion Chemical	FFKM 6375
Inorganic acid	A
Organic acid	A
Alkali	A
Alcohol	A
Aldehyde	A
Amine (room temperature)	A
Amine (> 70 degrees)	B
Ether	A
Ester	A
Ketone	A
Steam / hot water	A
Strong oxidants	B
Alkane	A
Tetrahydrofuran	A

A: volume change rate <10%

B: volume change rate <20% ~ 30%

C: volume change rate <30% ~ 50%

D: volume change rate> 50%