Datenblatt | Data sheet

Rubber ball FPM

Balls made of fluorocarbon elastomer. Excellent resistance to corrosion, aging and high temperatures. Very well suited for sealing applications. Flammable compounds.

Field of application

Pumps and safety valves (as a sealing element), pneumatic and hydraulic applications.

Corrosion resistance

Stable: In case of contact with hydraulic fluids, lubricating oils, transmission fluids, non-polar petroleum products, aliphatic, aromatic and chlorinated hydrocarbons, mineral oils and greases, diesel oil, methanol-containing fuels, many dilute acids, bases and salt solutions, silicones, plants and animals at ambient temperature. Likewise in air /oxygen/ozone and in aqueous environments/steam.

Material

Technical name	Alternative name	Abbreviation	
Fluorocarbon (Fluoroelastomer)	Viton	FPM, FKM	

Physical / mechanical / thermal / electrical / magnetic characteristics

Characteristic	Symbol	Unit	Туре	pe Note	
Density	δ	g/cm³	Physical	Environmental temp.	1,84
Modulus of elasticity	E	MPa	Mechanical	-	12
Elongation at break	А	%	Mechanical	Environmental temp.	≤ 500
Compression set	-	%	Mechanical	Environmental temp.	26
Coefficient of friction	μ	-	Mechanical	Environmental temp.	0,70
Linear coefficient of thermal expansion	α	10 ⁻⁶ /°C	Thermal	(ΔT = 0 - 100°C)	125
Thermal conductivity	λ	W/(m*K)	Thermal	Environmental temp.	0,16
Electrical resistivity	ρ	Ω*mm²/m	Electrical	-	> 10 ⁸
Relative magnetic permeability	μ	-	Magnetic	Diamagnetic	< -1

Technical characteristics

Characteristic	Туре	Unit	Туре		Unit	Value	
Hardness	Mechanical	Shore A	70 - 90		-	-	
Break load in traction	Mechanical	MPa	7 - 21		psi * 10 ³	1,00 - 3,00	
Operating temperature	Thermal	°C	-18 - 200		° F	0 - 392	
Available with							
Diameter min/max (mm)	Diameter min/r	Diameter min/max (in)			Precision grade		
1,000 - 152,400	3/64 - 6			Ш			

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Unstable: Against superheated water vapor and organic acids of low molecular weight, polar solutions, glycols, ammonia gases, amines and alkalis.