

Data Sheet: FFKM 3401 (70 Shore)

GENERAL SERVICE TEMPERATURE RANGE: -10°C to +230°C

Meets the extractive requirements of: FDA 21CFR177.2600 & 177.2400, EC 1935/2004 (UE N°10/2011 regulation), and 3A sanitary.

ORIGINAL PHYSICAL PROPERTIES

Property	Unit	Standard	Specific	Required	Tested
Specific gravity	g/cm ³	ASTM D297	± 0,02	-	-
Hardness	Shore A	ASTM D2240	± 5	70	70
100% Modulus	MPA	ASTM D2412	-	-	10,3
Tensile Strength	MPA	ASTM D2412	-	-	19,4
Ultimate Elongation	%	ASTM D2412	-	-	150

CHANGE OF PHYSICAL PROPERTIES AFTER AGING

		Air heat aging 70h/230°C ASTM D573	Saturated steam 168h/210°C ASTM D471	Hydrochloric acid 37% 72h/80°C ASTM D471	Sodium hydroxide 40% 72h/100°C ASTM D471
Hardness change	Pts	+1	+1	-2	0
Modulus change	%	-	-	-	-
Tensile change	%	+1	-20	+3	+10
Elongation change	%	+7	+16	+8	+4
Volume change	%	-	+0,8	+2	+0,6

FLUID RESISTANCE OVERVIEW

Property	Unit	Acids	Alkalis	Ketones	Esters & Ethers
Volume change	%	< 10	< 10	< 10	< 10

ENGINEERING OTHER INFORMATIONS

Property	Unit	Standard	Specific	Required	Tested
Permanent set	%	ASTM D395 (B S.2)	Initial def. 25%	70h/200°C	19
TR-10	°C	ASTM D1329	-	-	-2

The above test results are based on test slabs / buttons. The results from the actual parts may be different.