

V732 FKM Viton®

white | density 2.16 | hardness 70

03/07/2014

WHITE FKM VITON® SHEETING: FOOD QUALITY



FEATURES

Viton® A, white, food grade, meeting regulation (EC) 1935/2004 (European legislation) and FDA classification (American legislation).

REGULATIONS

- ▶ Meeting european regulations (EC) n° 1935/2004 and 2023/2006
- ▶ The material is in compliance with FDA 21 CFR Part. 177. Indirect Food Additives: Polymers. Sec 177.2600 Rubber articles intended for repeated use for contact with aqueous food and with fatty food
- ▶ Tested and qualified by BNIC (Bureau National Interprofessionnel du Cognac)
- ▶ Quality certificate available under request

ADVANTAGES

- ▶ Very good chemical resistance
- ▶ Excellent hydrocarbons resistance, either aliphatic, aromatic or chlorinated
- ▶ Good impermeability to gases
- ▶ Excellent air resistance
- ▶ Excellent heat resistance
- ▶ Excellent ozone resistance
- ▶ Strong resistance to water and steam up to 150 °C
- ▶ Excellent resistance to acids and alkalis, including oxidants

BENEFITS

- ▶ Legality
- ▶ Hygiene, cleanliness
- ▶ Reliability
- ▶ Service life
- ▶ Food safety

APPLICATIONS

Gaskets or washers cutting and manufacturing of pieces for general purpose applications in contact with:

- ▶ alcoholic beverages, foodstuffs, fatty products, vegetable and animal oils, alcohol, aqueous products, molasses, etc.
- ▶ diluted and concentrated acids
- ▶ hydraulic oils, fuel oil, automotive and jet fuel, treatment of aliphatic and aromatic hydrocarbons products and fluids
- ▶ organic solvents

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MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

	Measured characteristics	Standard	Value	
MECHANICAL				
	<i>Rubber compound</i>		FKM Viton®	
	<i>Density</i>		2.16 ± 0.05	g/cm ³
	<i>Hardness</i>	ASTM D2240	70 ± 5	Shore A
	<i>Tensile strength</i>	ISO 37	≥ 10	MPa
	<i>Elongation at break</i>	ISO 37	≥ 200	%
	<i>Compression set after 22 h at 200 °C</i>	ISO 815-1	≤ 23	%
TEMPERATURE				
	<i>Working temperature</i>		- 10/+ 250	°C
AGEING				
	<i>Δ Hardness after 70 h at 150 °C</i>	ASTM D573	≤ 10	Shore A
	<i>Δ Tensile strenght after 70 h at 150 °C</i>	ASTM D573	≤ - 15	%
	<i>Δ Elongation at break after 70 h at 150 °C</i>	ASTM D573	≤ - 25	%
OIL RESISTANCE				
	<i>Oil IRM 903, Δ volume after 70 h at 150 °C</i>	ASTM D471	≤ 10	%
CHEMICAL RESISTANCE				
	<i>Diluted acids and bases</i>	<i>Concentrated acids and bases</i>	<i>Ozone</i>	<i>Oils and hydrocarbons</i>
	Very good	Very good	Very good	Good

DIMENSIONS

Thickness (mm)		Width (mm)		Length (m)		Weight (kg/m ²)	Pattern
1	± 0.3	1200	± 2 %	20	± 2 %	2.16	2 smooth sides
1.5	± 0.3	1200	± 2 %	15	± 2 %	3.24	2 smooth sides
2	± 0.3	1200	± 2 %	15	± 2 %	4.32	2 smooth sides
3	± 0.3	1200	± 2 %	10	± 2 %	6.48	2 smooth sides
4	± 0.4	1200	± 2 %	10	± 2 %	8.64	2 smooth sides
5	± 0.4	1000	± 2 %	1	± 2 %	10.80	2 smooth sides

IDENTIFICATION

<i>Branding</i>	Without.
<i>Packaging</i>	Thickness ≤ 6 mm rolled on cardboard tube Ø 80 mm. Thickness > 6 mm in roll.
<i>Wrapping</i>	Black polyethylene film.
<i>Labelling</i>	Self-adhesive label indicating product name, dimensions, area in m ² , nominal weight, and product code to allow product traceability.