V732 FKM Viton®

16/07/2014

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) nº 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			
Rubber compound - white		FKM Viton®	◯
Density		2.16 ± 0.05	g/cm³
Hardness	ASTM D2240	70 ± 5	Shore A
Tensile strength	ISO 37	≥ 10	MPa
Elongation at break	ISO 37	≥ 200	%
Compression set after 22 h at 200 °C	ISO 815-1	≤ 23	%
TEMPERATURE			
Working temperature		- 20/+ 250	°C
AGEING			
Δ Hardness after 70 h at 150 °C	ASTM D573	≤ 10	Shore A
Δ Tensile strenght after 70 h at 150 °C	ASTM D573	≤ - 15	%
Δ Elongation at break after 70 h at 150 °C	ASTM D573	≤ - 25	%
OIL RESISTANCE			
Oil IRM 903, Δ volume after 70 h at 150 °C	ASTM D471	≤ 10	%

CHEMICAL RESISTANCE

Diluted acids and bases	*Concentrated acids and bases*	*Ozone*	*Oils and hydrocarbons*
Very good	**Very good**	**Very good**	**Good**

DIMENSIONS

Thickness (mm)		*Width (mm)*		*Length (m)*		*Weight (kg/m²)*	*Sides finish*
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

Branding	Without.
Packaging	Thickness ≤ 6 mm rolled on cardboard tube Ø 80 mm. Thickness > 6 mm in roll.
Wrapping	Black polyethylene film.
Labelling	Self-adhesive label indicating product name, dimensions, area in m², nominal weight, and product code to allow product traceability.