

Ventus

Rubber



A. Raw Materials

1. Steel Wire

DIN / ASTM / SAE	EURO	TS
DIN 17223/B	EN 10270-1-SM	TS2500-1-SM

2. AL-PET (Aluminium + Polyester for inner and outer surface)

Chemical composition of the alloys used for production of foil corresponds to DIN EN 573-3

Tensile Test according to DIN EN 546-2.

7-12 μm thickness ALU+PET is used.

3. Rubber (Insulation Material)

Determination of water vapour permeability acc. to DIN EN 12086.

Density of Rubber (kg/m^3)	Water Vapour Resistance Index (μ)	Water Vapour Permeability kg/ Pa.s.m
35	7200	$3,3 \cdot 10^{-14}$

Reaction to Fire class of rubber is B-s3-d2 acc. to EN 13501-1.

Determination of Thermal Conductivity Coefficient acc. to EN 12667.

Operating Temperature	Thermal Conductivity Coefficient λ of Insulation Material (W/mK)
10 C°	0,03217
20 C°	0,03314
30 C°	0,03410
40 C°	0,03506

CE certificate is the guarantee that the product respects the environment and has been supplied to the consumer in full compliance with the quality criteria and standards. According to this product standard, the manufacturing technologies should not harm the environment or the ozone layer. According to EU Construction Products Directive, the construction materials should carry the CE marking. The rubber has the CE certificate.

B. Product Data

FLEXIVA VENTUS RUBBER		STANDARD
DIAMETER CHANGE	Ø102 mm - Ø610 mm	EN 13180
OPERATING TEMPERATURE	-30 °C / 150 °C	(NF P 92-501)
MAXIMUM AIR VELOCITY	30 m/s	
MAXIMUM POSITIVE PRESSURE	5000 Pa	EN 13180
MAXIMUM NEGATIVE PRESSURE	600 Pa	EN 13180
PACKAGING	7,5 m/box	İŞİL
END TREATMENT	7,5 m -PLAIN ENDS	

Intended for medium and low pressure environment. It has the features of being able to be stretched, twisted and compressed. Air tight (Class C according to EN 13180) and flame retardant.

Production according to **ISO EN 9001:2015** and **EN 13180** standards.

Patented, **Patent no: TR 2010 09124 B**

261- 509 registered product by Ministry of environment and urban planning in Turkey.

C. Performance Data

1. Sound Attenuation

ATTENUATION (dB)							
Diameter (mm)	Sample length (mm)	Frequency (Hz)					
		125	250	500	1000	2000	4000
160	1000	32	28	20	12	10	12
	2000	30	24	18	12	9	13
	3000	28	25	21	14	11	14
203	1000	27	21	14	8	8	11
	2000	28	22	15	9	7	9
	3000	23	18	13	7	6	10
254	1000	29	22	15	10	9	12
	2000	26	21	15	10	8	12
	3000	23	19	14	9	8	14

2. Fire Performance

The rubber insulation's reaction to fire class is B-s3-d2 according to EN 13501-1 European norm. And whole product is tested according to the NF P 92-501 French norm and Ventus Rubber has M1 certificate. Please contact with your sales representative for the certificates.

D. Installation

Air duct connections and joints shall be made per installation instructions outlined by IŞIL Mühendislik. Please contact with your sales representative for the installation instructions.

TDS No: 164 Date: 12.04.2023

Revision No: - Revision Date: -

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