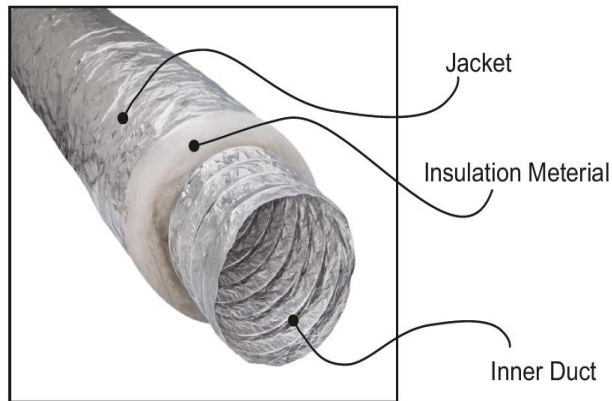


# Flexiva Fly Sono

## Fiber Insulated



### A. Raw Materials

#### 1. Steel Wire Quality Standards

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

#### 2. ALPET (Aluminium+Polyester for inner duct)

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

Tensile Test according to DIN EN 546-2.

20-10 micron thickness ALU+PET is used for inner surface, 7-12 micron thickness ALU+PET is used for outer surface.

#### 3. POLYESTER FIBER (Insulation Material)

Determination of fiber density acc. to TS EN 29703-1, and its thickness is controlled acc. to TS EN 9073-2.

Density of Fiber(gr/m <sup>2</sup> )	Thickness of Fiber(mm)	Fire Resistance (Acc. to Demand)
230	25	STANDARD or PASSED (BS 5852: Part 2)

Flammability of fiber is tested acc. to BS 5852: Part 2. Also flammability of fiber passed M1 test acc. To French Standards. Please contact with your sales representative for the reports and certificates.

#### 4. ALUMINIUM JACKET (Aluminium+Polyester)

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 micron thickness ALU+PET and 12 micron pet are used.

## B. Product Data

FLEXIVA FLY SONO FIBER INSULATED		STANDARD
DIAMETER CHANGE	Ø52 mm - Ø610 mm	EN 13180
OPERATING TEMPERATURE	-30 °C / 200 °C	BS 5852:Part 2
MAX. AIR VELOCITY	30 m/ sn	
MAX. POSSITIVE PRESSURE	5000 Pa	EN 13180
MAX. NEGATIVE PRESSURE	400 Pa	EN 13180
PACKAGING	10 m/box	IŞIL
END TREATMENT	10 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.

**261- 503** registered product by Ministry of environment and urban planning in Turkey.

## C. Performance Data

### 1. Fire Resistance

The fiber insulation's fire resistance is tested according to BS 5852:Part 2, English norm.

## 2. Sound Insulation Performance

Insertion loss *Flexiva Fly Sono (diameter 203 mm)*

	INSERTION LOSS [dB]					
length	1 m		2 m		3 m	
record nr.	#73		#75		#77	
figure nr.	1.4		1.5		1.6	
frequency [Hz]	1/3 oct.	1/1 oct.	1/3 oct.	1/1 oct.	1/3 oct.	1/1 oct.
50	22,1		30,6		36,2	
63	12,5	14,5	20,6	23,4	27,3	29,2
80	13,6		23,7		28,2	
100	17,0		31,6		30,2	
125	14,2	15,6	27,8	29,2	29,5	30,0
160	16,1		29,1		30,3	
200	19,4		27,5		29,8	
250	18,3	17,6	27,8	27,6	27,9	29,1
315	15,9		27,6		29,9	
400	16,1		25,8		29,1	
500	15,2	15,1	24,4	24,9	29,5	29,3
630	14,1		24,6		29,3	
800	12,7		24,0		29,0	
1000	12,1	12,6	21,1	20,0	30,8	29,5
1250	12,9		17,4		29,0	
1600	14,9		15,8		27,3	
2000	14,9	15,1	16,3	16,7	26,4	28,2
2500	15,5		18,4		34,1	
3150	13,0		16,3		28,5	
4000	9,3	10,5	14,7	15,0	23,1	25,2
5000	10,1		14,3		25,6	

### D. Installation

Air duct connections and joints shall be made per installation instructions outlined by İŞİL Mühendislik. The perfect installation should be by EXIVA, practical connector. Please contact with your sales representative for the installation instructions and the specifications of EXIVA.

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