

# EXLON-PVC AH 105 Tubing



Printing on the tubing **AH 105**

## Characteristics

EXLON-PVC AH105 Tubing is produced using the same materials as EXLON-PVC UL Tubing that complies with Iwase's UL and CSA Standards. These tubing have extremely excellent heat resistance, electric properties, non-flammability, and other performances.

## Purposes

- (i) For providing heat resistance, insulation, and protection of wires of electronic and electric devices.
- (ii) For protecting lead wires of transformers, magnet coils, condensers, and other devices.

Table of tubing characteristics				
Items	Standard value	Performance value	Testing conditions and other aspects	
Tensile strength (MPa)	10.4 or more	17.0 or more		
Extension (%)	100 or more	250 or more		
Dielectric strength	2,500 V 1 minute or more	10,000 V 1 minute or more		
After heat aging	Tensile strength	7.4 MPa or more	15.0 MPa or more	136°C 7 days
	Elongation(%)	100% or more	200% or more	
	Dielectric voltage	2,500 V 1 minute or more	10,000 V 1 minute or more	
	Copper stability	Extension 100% or more	Extension 200% or more	
	Flexibility	No crack or permanent deformation	No abnormality	
Volume resistivity	10 <sup>10</sup> Ω-cm or more	10 <sup>12</sup> Ω-cm or more		
Flammability	VW-1	Equivalent of VW-1		
Cold bend	No crack	No crack	-30°C 1 hour	
Longitudinal change (%)	±5	5.0 or less	100°C 2 hours	

\* The data above are representative values and not guaranteed values.

\* Properties are the same level as UL Tubing.

\* Recommended temperature range: -20°C to 105°C

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Standard size chart					
Size	Inner diameter (mm)	Inner diameter tolerance (mm)	Wall thickness (mm)	Thickness tolerance (mm)	Unit length (m)
1.5 × 2.3	1.5	+0.2、-0.1	0.4	±0.08	300
2 × 2.8	2.0	+0.2、-0.1	0.4	±0.08	300
2.5 × 3.5	2.5	+0.3、-0.2	0.5	+0.1、-0.08	300
3 × 4	3.0	+0.3、-0.2	0.5	+0.1、-0.08	300
3.5 × 4.5	3.5	+0.3、-0.2	0.5	+0.1、-0.08	300
4 × 5	4.0	+0.3、-0.2	0.5	+0.1、-0.08	300
4.5 × 5.5	4.5	+0.3、-0.2	0.5	+0.1、-0.08	300
5 × 6	5.0	+0.3、-0.2	0.5	+0.1、-0.08	Transparent 300/Black 400
6 × 7	6.0	+0.4、-0.2	0.5	+0.1、-0.08	Transparent 300/Black 400
7 × 8	7.0	+0.4、-0.2	0.5	+0.1、-0.08	300
8 × 9	8.0	+0.4、-0.2	0.5	+0.1、-0.08	300
9 × 10	9.0	+0.4、-0.2	0.5	+0.1、-0.08	200
10 × 11.2	10.0	+0.4、-0.2	0.6	±0.1	200
12 × 13.2	12.0	+0.5、-0.3	0.6	±0.1	200

- Transparent/Black is the standard color for the tubing. Other colors (red, blue, yellow, gray, brown, white, green, and orange) can be produced when orders are received.
- We also welcome orders for tubing with other colors, special sizes, and pipes cut in various lengths.
- Printing on the tubing range from 2.5Ø to 16Ø.



Colored models available

EXLON-PVC  
AH105 Tubing



Highly nonflammable



105°C level