Heavy / Thick Wall

AHWA - Thick Wall Adhesive Lined
AHW - Thick Wall (No Adhesive)

Description

AHW/AHWA is a thick wall polyolefin heatshrink tubing with excellent insulation, environmental and mechanical properties.

Features

- Wall thickness - 2.4mm to 4.5mm
- Shrink ratio 3 : 1
- Operating temperature - 55 to 110°C
- Excellent impact and abrasion resistance
- Excellent environmental and UV resistance
- High electrical insulation properties
- Colours - Black
- Minimum full recovery temperature 120°C

Applications

- Inner and outer sleeves for joints from 1 kV to 36 kV
- Installations where severe mechanical protection is required.
- Borehole/submersible pump joints that may be exposed to high water pressure.
- Encapsulating, water and weather proofing of cables and pipes.

Technical Data

Properties	Test Methods	Typical Values
Tensile (MPa)	ASTM D2671	≥ 14
Elongation (%)	ASTM D2671	≥ 400
Heat Ageing: Tensile (MPa) : Elongation (%)	ASTM D2671 (150°C, 168 hrs)	≥ 12 > 300
Water Absorption (%)	ISO 62 (23°C,14days)	< 0.15
Eccentricity (%)	UL 224	< 30
Copper Stability	ASTM D 2671	Pass
ESCR (environmental stress crack resistance)	ASTM D 1693 (50°C)	No Cracking
Dielectric Strength (kV/mm)	ASTM D 2671	≥ 18
Volume Resistivity (Ω,cm)	ASTM D 257/IEC 93	10^{13}
Eccentricity (%)	ASTM D2671	< 40
Density (g/cm³)	ASTM D792	1.05
Longitudinal Shrink (%)	UI224	≤ 10
Adhesive Lining		
Water Absorption (%)	ISO 62	< 0.2
Softening Point (OC)	ASTM E28	85 ± 5
Peel Strength (N/cm)	DIN 30672	4
Resistance to Fungus and Decay	ISO 846	Pass

Dimensions

Product	Inside Diameter (mm)		Wall Thickness Recovered Min (WT) mm	Standard Length (mm)
	Supplied (D)	Recovered (d)		
AHWA12/3	12	3	2.4	1200
AHWA22/6	22	6	2.7	1200
AHWA28/6	28	6	2.8	1200
AHWA33/8	33	8	3.2	1200
AHWA40/12	40	12	4.1	1200
AHWA55/16	55	16	4.1	1200
AHWA75/22	75	22	4.1	1200
AHWA95/25	95	25	4.3	1200
AHWA115/34	115	34	4.3	1200
AHWA140/42	140	42	4.3	1200
AHWA160/50	160	50	4.3	1200
AHWA180/58	180	58	4.3	1200

NOTE: For non-adhesive lined replace AHWA with AHW (Suffix "A"-Adhesive lined)