C106 Semi-Conductive/Insulation/Elastomeric Insulation Tri-Layer Heat Shrink Tube

Features

- Cross-linked heavy wall tubing
- Tri-layer design with high recovery forces
- Co-Extrusion technology
- Eliminates partial discharge
- Operating temperature: -55~105℃
- Shrink temperature: 135~150℃
- Voltage class: 10~35 KV
- Halogen free ,RoHS Compliant
- Enable the joint to follow the thermally induced dimensional changes of cable insulation.

Dimensions

Reference UPM C106	As supplied(mm) ID min.	After recovered(mm) ID max.	After recovered(mm) WT nom.	Standard length m
35/13	35	13	11.0	1 or 1.22
45/17	45	17	12.0	1 or 1.22
50/21	50	21	12.7	1 or 1.22
63/26	63	26	13.5	1 or 1.22
75/34	75	34	13.5	1 or 1.22
85/34	85	34	13.5	1 or 1.22
95/42	95	42	14.2	1 or 1.22
110/52	110	52	14.2	1 or 1.22
125/62	125	62	15.0	1 or 1.22

- ID=Internal Diameter
- WT= Wall Thickness

Typical application

- Ideal for insulation of power cable joint up to 42 KV

Ordering

- Standard color : Black/Red/Red
- Standard packaging is 1m/pc or 1.22m/pc
- Please provide specification,quantity when ordering

Cross reference

- Raychem/ Tyco: ERIT/ERIC/ERIH

Technical Data

	Property	Test Method	Values
Inner layer			
Physical	Tensile strength	ASTM D2671	≥6 MPa
	Breakdown elongation	ASTM D2671	≥600%
Aging (136℃/168hrs)	Tensile strength	ASTM D2671	≥4.2 MPa
	Breakdown elongation	ASTM D2671	≥420%
	Thermal endurance	IEC 216	105 ℃
	Water absorption (23℃/336hrs)	ASTM D570	≤0.5%
	Density	ASTM D2671	0.95~1.05
	Low temperature flexibility(-55℃/4hrs)	ASTM D2671	No cracking.
	Hardness (Shore D)	ASTM D2671	≤ 30 HD
Electrical	Dielectric strength(in insulation oil)	ASTM D 2671	≥15 kV/mm
	Volume resistivity	ASTM D 2671	$\geq 10^{14}$ Ω.cm
Middle layer			
Physical	Tensile strength	ASTM D2671	≥12 MPa
	Breakdown elongation	ASTM D2671	≥400%
Aging (136℃/168hrs)	Tensile strength	ASTM D2671	≥12 MPa
	Breakdown elongation	ASTM D2671	≥350%
	Thermal endurance	IEC 216	105 ℃
	Water absorption (23℃/336hrs)	ASTM D570	≤0.5%
	Density	ASTM D2671	1.05~1.15
	Low temperature flexibility(-40℃/4hrs)	ASTM D2671	No cracking.
	Heat shock (200℃/30mins)	ASTM D2671	No cracking.
	Hardness (Shore D)	ASTM D2671	≥ 35 HD
Electrical	Dielectric strength(in insulation oil)	ASTM D 2671	≥15 kV/mm
	Volume resistivity	ASTM D 2671	$\geq 10^{13}$ Ω.cm
Outer layer			
Physical	Tensile strength	ASTM D2671	≥20 MPa
	Breakdown elongation	ASTM D2671	≥350%
Aging (158℃/168hrs)	Tensile strength	ASTM D2671	≥16 MPa
	Breakdown elongation	ASTM D2671	≥300%
	Thermal endurance	IEC 216	135 ℃
	Water absorption (23℃/336hrs)	ASTM D570	≤0.5%
	Density	ASTM D2671	1.05~1.10
	Heat shock (250℃/30mins)	ASTM D2671	No cracking.No drop, no flow
	Low temperature flexibility(-40℃/4hrs)	ASTM D2671	No cracking.
	Hardness (Shore D)	ASTM D2671	≥ 55 HD
Electrical	Volume resistivity	ASTM D 2671	$\leq 10^{4}$ Ω.cm
Inner layer & Middle layer & Outer layer			
	Halogen free	IEC 61249-2-21	Cl : 900ppm max. Br : 900ppm max. Total (Cl + Br) : 1500ppm max

UNION POLYMER INTERNATIONAL
Specializing in Heat Shrink Technologies
http://www.Union-Polymer.com
Phone: (513) 899 1618
Email: Info@Union-Polymer.com