



UPTBT

UNION POLYMER THIN WALL BUS BAR INSULATION TUBING (VOLTAGE CLASS: 1KV)





FEATURES AND APPLICATIONS

- Ideal for using in switchgear cabinets where space is limited and air spacing between bus bars need to be minimized
- Provides insulation and flashover protection up to 1kV
- Heat shrink ratio: 3 to 1Standard color: Black
- RoHS compliant
- Operating temperature: -40°C to 105°C; Shrink temperature: 125°C

DIMENSIONS (HEAT SHRINK RATIO 3:1)

Product Order Number	Internal Diameter As Supplied		Internal Diameter Recovered		Wall Thickness (Nominal) Recovered	
	inch	mm	inch	mm	inch	mm
UPTBT-30/10	1.2	30	0.4	10	0.07	1.8
UPTBT-75/25	3.0	75	1.0	25	0.08	2.0
UPTBT-100/33	4.0	100	1.3	33	0.09	2.2
UPTBT-150/50	6.0	150	2.0	50	0.09	2.2
UPTBT-180/70	7.0	180	2.8	70	0.09	2.3

PHONE: (513) 899-1618

Standard length per spool: 100 FT (33 meters)

TECHNICAL DATA

	Property	Test method	Values	
Physical	Tensile strength	ASTM D2671	≥14 MPa	
Physical	Breakdown elongation	ASTM D2671	≥400%	
Aging (136°C/168hrs)	Tensile strength	ASTM D2671	≥12 MPa	
	Breakdown elongation	ASTM D2671	≥300%	
Resistance to selected fluids	Tensile strength	IEC 60684-2	≥8 MPa	
(23°C/168hrs)	Breakdown elongation	IEC 60684-2	≥250%	
	Density	ASTM D2671	1.15~1.25	
	Thermal endurance	IEC 216	125°C	
	Water absorption (23°C/336hrs)	ASTM D570	≤1.0%	
	Low temperature flexibility (-40°C/4hrs)	ASTM D2671	No cracking	
	Heat shock (225°C/4hrs)	ASTM D2671	No drop, No flow, No cracking	
	Haldin ain taat	more than 3	After shrink, no air gap	
	Holdig air test	bendings on bus bar	between H.S.T. and bus bar	
	Cutting test (130°C/168hrs)	Raychem method	5mm Length cutting along longitudinal, no cracking	
	Halana for a	IEC (1240-2-21	Cl:900ppmmax.Br: 900ppmmax.	
	Halogen free	IEC 61249-2-21	Total (Cl + Br):1500ppm max.	
Electrical	Volume resistivity	ASTM D2671	≥10 ¹³ Ω.cm	
	Dielectric strength (in insulation oil)	ASTM D2671	≥18 KV/mm	
Chemical	Flammability	ASTM D2863	OI ≥ 27	
	Smoke index	IEC 61034	≤ 120	
	Copper corrosion(158°C /168hrs)	IEC 60684-3	Pass	

ORDERING

Please specify:

- (1) Product Order Number
- (2) Quantity in spools, and
- (3) Printing options (Standard Union Polymer mark, Customized mark, or Unprinted)

Order Example: UPTBT-75/25, 200 spools, Unprinted

Once a purchase order is received

Order confirmation will be sent from Union Polymer within 12 hours

All in-stock products will be shipped from our Ohio warehouse within 48 hours

Union Polymer International Phone: (513) 899-1618 www.Union-Polymer.com