

2:1 SHRINK RATIO, FLEXABLE, FLAME RETARDANT, POLYOLEFIN TUBING

### Applications

TW is a flexible, flame retardant heat shrinkable polyolefin tube. It is designed for a wide range of applications requiring high heat-resistance, including insulation for electric & electronic devices, wire strain relief and protective covering for parts such as resistors and capacitors.

### Features

- Low Temperature Printable – Thermal Transfer or Hot Stamp
- In stock for immediate shipments – All Colors and Yellow/Green stripe.
- Shrink ratio: 50% or more in the radial direction, 7% or less in the axial direction
- Continuous operating temperature: - 55°C to 135°C
- Flammability: UL VW-1, CSA OFT, -F-MARK
- Highly heat-resistance
- High resistance to chemicals and oils

### Standard

- UL 224 (File Number: E84393)
- CSA C22.2 (File Number: LR55659)
- MIL-DTL-23053/5 Class 1 & Class 3 (Clear is Class 2)

### Specification Values

Property		Test Method	Value	
Physical	Unaged	Tensile strength	ASTM D 2671	
		Elongation	Min. 1.06 kgf/mm <sup>2</sup> (1,500 psi) Min. 200%	
	Aged	Tensile strength	175°C/168 hrs	
		Elongation	Min. 0.8 kgf/ mm <sup>2</sup> (1,000 psi) Min. 100%	
	Deformation		158°C/1 hr	Max. 50%
	Heat shock		250°C/4 hrs	No crack
	Cold bend		- 55°C/4 hrs	No crack
	Flexibility		158°C/168 hrs	No crack
Secant modulus		-	Max. 17.59 kgf/mm <sup>2</sup> (25,000 psi)	
Specific gravity		ASTM D 2671	1.5 max.	
Electrical	Dielectric strength		ASTM D 149	
	Volume resistivity		-	Min. 20kV/1 minute Min. 10 <sup>14</sup> Ω - cm
Chemical	Copper corrosion		175°C/16 hrs	No corrosion
	Copper stability		158°C/168 hrs	No sign of degradation
	Fungus resistance		ASTM G 21	No growth
	Flammability		UL VW-1 ASTM D 2671	Pass – self extinguishing