Manelco

Heat Shrink Tubing
TW - Thin Wall 2:1 Shrink

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	Min. 1.06 kgf/mm^2 (1,500 psi)
		Elongation		Min. 200%
	Aged	Tensile strength	175°C/168 hrs	Min. 0.8 kgf/ mm^2 (1,000 psi)
		Elongation		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^2 (25,000 psi)
	Specific gravity		ASTM D 2671	1.5 max.
Electrical	Dielectric strength		ASTM D 149	Min. 20kV/1 minute
	Volume resistivity		-	Min. $10^{14}\Omega$ - 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

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