



S3(t) Flame Retardant Adhesive Lined Thin Wall Heat Shrink Tube

Features

- Co-extruded dual wall tube
- Cross-linked flexible polyolefin outer layer
- Thermal melt adhesive liner
- High flame retardant VW-1(outer layer)
- Operating temperature: -40~135°C
- Shrink temperature: 125°C
- High shrink ratio: 3:1& 4:1
- RoHS compliant

Approvals

- UL approval
- File No.

Dimensions

Reference UPM S3(t)	As supplied(mm) ID min.	After recovered(mm) ID max.	Standard length m
Shrink ratio 3:1			
3.2/1.0	3.2	1.0	200
4.8/1.6	4.8	1.6	100
6.4/2.1	6.4	2.1	100
7.9/2.6	7.9	2.6	50
9.5/3.2	9.5	3.2	50
12.7/4.2	12.7	4.2	1.22
15.0/5.0	15.0	5.0	1.22
19.1/6.0	19.1	6.0	1.22
25.4/8.0	25.4	8.0	1.22
30.0/10.0	30.0	10.0	1.22
39.0/13.0	39.0	13.0	1.22
51.0/17.0	51.0	17.0	1.22
Shrink ratio 4:1			
4.0/1.0	4.0	1.0	1.22
6.0/1.5	6.0	1.5	1.22
8.0/2.0	8.0	2.0	1.22
12.0/3.0	12.0	3.0	1.22
16.0/4.0	16.0	4.0	1.22
20.0/5.0	20.0	5.0	1.22
24.0/6.0	24.0	6.0	1.22
32.0/8.0	32.0	8.0	1.22
52.0/13.0	52.0	13.0	1.22

● ID=Internal Diameter

● WT=Total Wall Thickness

Technical Data

	Property	Test Method	Values	
Physical	Tensile strength	When test at 500mm/min.	≥12 MPa	
	Breakdown elongation	When test at 500mm/min.	≥300%	
Aging (158℃/168hrs)	Tensile strength	When test at 500mm/min.	≥10MPa	
	Breakdown elongation	When test at 500mm/min.	≥200%	
	Density	--	1.15-1.25	
	Thermal endurance	--	125 ℃	
	Hardness (Shore D)	--	≤40 HD	
	Water absorption (23℃/24hrs)	--	≤0.5%	
	Low temperature flexibility(-30℃/1hr)	--	No cracking	
	Peel strength to steel	ASTM D2671	80N/25mm	
	Peel strength to XLPE	ASTM D2671	110N/25mm	
	Heat shock (250℃/4hrs)	--	No cracking.No drop, No flow(outer layer only)	
Electrical	Volume resistivity	ASTM D2671	≥10 ¹⁴ Ω.cm	
	Dielectric strength(2500V AC/60s)	ASTM D2671	≥12KV/mm	
	Dielectric breakdown voltage	--	≥ AC 2500V	
	Dielectric voltage withstand	1min.AC2500V	No breakdown	
	Dielectric breakdown voltage	--	AC 2500V min. and more than 50% of the value obtained with unaged sample	
Aging (158 ℃/168hrs)	Dielectric voltage withstand	1min.AC2500V	No breakdown	
	Flammability(outer layer only)	VW-1	Pass	
Chemical	Copper corrosion	(158℃/168hrs) 500mm/min	Elongation≥100%	
Fluids resistance (23℃/24hrs)	Diesel fuel(Bs2869 class A1)	ISO 37	Tensile strength	≥7 MPa
	Hydraulic fluid(H- 515)		Breakdown elongation	≥300%
	lubricating oil(O- 149)		Peel strength to steel	60N/25mm

Note: The test methods conform to UL224.

Typical application

- Ideal for applications including connector-to-cable sealing, wire harness bundles and splices where insulation, corrosion resistance and mechanical stress relief are required.

Ordering

- Standard color : Black
- Special colors(eg. White,Red,Yellow,Green,Clear) are available on request
- Standard packaging on spools and/or 1.22m/pc
- Please specify specification, color, quantity when ordering

Cross reference

- Raychem/ Tyco :ATUM



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