



Connect and Protect

TransTechnical Solutions

TTS Thin Wall Adhesive Heat Shrink TTWAHS Series

Material:	Flame Retardant XLPO, hot melt adhesive
Approvals:	UL224, CSA, REACH, RoHS
Operating Temperature:	-45°C to 125°C, short time up to 150°C.
Flammability:	ASTM D2671
Key Features:	Very flexible. Excellent sealing against water moisture or other contaminants. Fully shrink temperature $\geq 125^{\circ}\text{C}$. Flame retardant Diesel and oil resistant. 3-1 Shrink Ratio. International approvals UL, CSA. Rated voltage 600V.



Function:	Adhesive lined heat shrink tubing with environmental sealing capability for a wide variety of electrical applications, including automotive and marine wire harness, wire splices, breakouts, and connector to cable transitions.
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Thin Wall Adhesive Heat Shrink Specification				
ITEM		TESTING METHOD		RESULT
Physical	Tensile strength/MPa		UL224	≥ 10.4
	Elongation/%		UL224	≥ 200
	Tensile strength after aging/MPa		UL224; 158°C×168hr	≥ 7.3
	Elongation after aging/%		UL224; 158°C×168hr	≥ 100
	Longitudinal shrink ratio(%)		UL224	$\leq \pm 8\%$
	Heat Shock		UL224;	No viscosity, No cracking
	Cold Blend		UL224; -30°C×1hr	No cracking
	Water Absorption		ASTM D 570	<0.5
Electrical	Dielectric Withstand	300V	UL224; 1500V 1min	without breakdown
		600V	UL224; 2500V 1min	without breakdown
	Dielectric Strength/KV/mm		UL224	≥ 15
	Volume resistance/ $\Omega \cdot \text{cm}$		UL224	$\geq 1 \times 10^{14}$
Chemical	Copper stability		UL224; 158°C×168hr	PASS
	Anti Corrosion		UL224; 158°C×168hr	PASS
	Flammability		ASTM D2671	PASS

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Hot melting Adhesive Specification		
Property	Test Method	Standard
Water Absorption	ASTM-D570	<0.2%
Vicat Softening Point	ASTM-E28	95°C
Peel Strength (PE)	ASTM-D1000	120N/25mm
Peel Strength (AL)	ASTM-D1000	80N/25mm

Part No.	As supplied (mm)	After shrinkage (mm)			Meter/ Spool
	Min I.D	I.D	Total W.T	Adhesive thickness	
TTWAHS/3-1/3.2/*	≥3.2	≤1.00	0.90±0.30	0.40±0.20	100
TTWAHS/3-1/4.8/*	≥4.8	≤1.60	1.05±0.30	0.40±0.20	100
TTWAHS/3-1/6.4/*	≥6.4	≤2.20	1.25±0.30	0.45±0.20	100
TTWAHS/3-1/9.5/*	≥9.5	≤3.20	1.45±0.30	0.50±0.20	50
TTWAHS/3-1/12.7/*	≥12.7	≤4.20	1.65±0.30	0.50±0.20	25
TTWAHS/3-1/19.1/*	≥19.1	≤6.30	1.95±0.30	0.60±0.30	25
TTWAHS/3-1/25.4/*	≥25.4	≤8.50	2.00±0.40	0.60±0.30	25
TTWAHS/3-1/39.0/*	≥39.0	≤13.5	2.45±0.40	0.75±0.30	25
TTWAHS/3-1/50.0/*	≥50.0	≤17.0	2.75±0.40	0.80±0.30	25

*Color: Black (BL), Red (RE) [Selected sizes], Clear (CL)

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