

HEAT-SHRINKABLE TUBING

HTS-K2

SUMITUBE®, Made of Polyvinylidenfluorid, Thin-walled, Flexible, Transparent, Highly temperature resistant



Highlights

- Operating temperature - 55 °C to 175 °C
- Highly flame resistant
- High dielectric strength
- Very good resistance to chemicals and solvents
- Shrink rate 2:1
- Shrink temperature: 150 °C
- Low-friction surface
- RoHS and REACH conform
- Approvals: UL, CSA, VG, DEF STAN, MIL Standard (RE4-

Dimensions

Art.-No.	Before Shrinkage (mm)		After Shrinkage (mm)		Standard Packaging	
	Inch	Inner Diameter (min)	Inner Diameter (max.)	Wall Thickness (nom.)	Spool (m)	Box (m)
Z85633	3/64	1.20	0.60	0.25	300	900
Z85634	1/16	1.60	0.80	0.25	300	900
Z85635	3/32	2.40	1.20	0.27	150	900
Z85636	1/8	3.20	1.60	0.27	150	600
Z85637	3/16	4.80	2.40	0.27	60	300
Z85638	1/4	6.40	3.20	0.33	60	300
Z85741	3/8	9.50	4.75	0.33	60	300
Z85640	1/2	12.7	6.40	0.33	60	300
Z85742	3/4	19.1	9.50	0.43	60	180
Z85743	1	25.4	12.7	0.48	60	180
Z85639	1 1/2	38.1	19.1	0.51	60	180
Z85744	2	50.8	25.4	0.51	60	120

Technical characteristics

Property	Test	Inspection Requirements	Typical Values
Physical	Longitudinal change	SAE-AS23053, 5% bis -10%	-7%
	Density	ASTM D 792, max. 1.9	1.73
	Tensile strength	ASTM D 412, min. 24.1 MPa	≥ 30 MPa
	Elongation at break	ASTM D 412, min. 200%	≥ 350%
	Secant modulus	ASTM D 882, min. 690 MPa	≥ 730 MPa

Created by: VS 20.11.2020

We reserve the right to make product changes.

**RELIABLE, FLEXIBLE,
CUSTOMER-ORIENTED**

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Technical characteristics

Property	Test	Inspection Requirements	Typical Values
Thermal	Operating temperature	SAE-AS23053	-55 °C to 175 °C
	Min. Shrink temperature	For complete shrinkage	150 °C
	Shrinkage begins at		120 °C
	Heat shock (275 °C x 4 h)	SAE-AS23053, no cracking, flowing or dripping	Passed
	Elongation after thermal aging (250 °C x 168 h)	ASTM D 638, min. 100%	≥ 200%
	Low temperature Flexibility (-55 °C x 4 h)	SAE-AS23053, keine Risse	Passed
	Copper corrosion (160 °C x 16 h)	SAE-AS23053, keine Korrosion	Passed
	Transparence (200 °C x 24 h)	SAE-AS23053, lesbare Kennzeichnungen	Passed
Chemical	Flammability	UL 224 / CSA, VW-1	Passed
	Water absorption	ASTM D 570, max. 0.5%	≤ 0.2%
	Fluid resistance	SAE-AS23053	
	Tensile strength (after immersion 24 °C x 24 h)	Min. 13.9 MPa	Passed
	Elongation (after immersion 24 °C x 24 h)	Min. 100%	Passed
	Dielectric strength (after immersion 24 °C x 24 h)	Min. 15.7 kV/mm	Passed
	Fungus resistance	SAE-AS23053, ASTM G 21	Passed
Electrical	Nominal voltage		600V
	Volume resistance	ASTM D 876, min. 10 ¹¹ Ω/cm	>10 ¹⁵ Ω/cm
	Dielectric strength	SAE-AS23053, Min. 15.7 kV/mm	≥ 30 kV/mm

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**SUMITOMO
ELECTRIC
GROUP**