

# HEAT-SHRINKABLE TUBING

## HTS-B2

SUMITUBE®, Made of Polyolefin, Thin walled, Flexible, Excellent quality



### Highlights

- Operating temperature - 55 °C to 135 °C
- Self-extinguishing
- Little longitudinally shrink
- Very flexible
- Excellent handling
- Shrink rate 2:1
- Many colours
- RoHS and REACH conform
- Approvals: SAE (MIL), CSA, UL

### Dimensions

Art.-No.	Before Shrinkage (mm)			After Shrinkage (mm)		Standard Packaging Spool (m)
	Inch	Inner Diameter (max.)	Wall Thickness (nom.)	Inner Diameter (max.)	Wall Thickness (nom.)	
Z85201	3/64	1.20	0.20	0.60	0,34 - 0,48	300
Z85202	1/16	1.60	0.20	0.80	0,36 - 0,50	300
Z85203	3/32	2.40	0.25	1.20	0,44 - 0,58	150
Z85204	1/8	3.20	0.25	1.60	0,44 - 0,58	150
Z85205	3/16	4.80	0.30	2.40	0,44 - 0,58	60
Z85206	1/4	6.40	0.30	3.20	0,57 - 0,71	60
Z85207	3/8	9.50	0.30	4.75	0,57 - 0,71	60
Z85208	1/2	12.70	0.30	6.40	0,57 - 0,71	60
Z85209	3/4	19.10	0.40	9.50	0,69 - 0,83	60
Z85210	1	25.40	0.45	12.70	0,77 - 1,01	60
Z85216	1-1/4	31.80	0.45	15.90	0,87 - 1,17	60
Z85211	1-1/2	38.10	0.45	19.10	0,87 - 1,17	60
Z85212	2	50.80	0.50	25.40	0,97 - 1,31	60
Z85213	3	76.20	0.55	38.10	1,07 - 1,47	60
Z85214	4	101.60	0.60	50.80	1,18 - 1,62	30

#### HTS-B2 Colours, with article numbers

Colours /Size	3/64	1/16	3/32	1/8	3/16	1/4	3/8	1/2	3/4	1	1-1/2	2	3	4
Blue	Z85141	Z85142	Z85143	Z85144	Z85145	Z85146	Z85147	Z85148	Z85149	Z85150	Z85151	Z85152	Z85153	Z85154
Yellow	Z85161	Z85162	Z85163	Z85164	Z85165	Z85166	Z85167	Z85168	Z85169	Z85170	Z85171	Z85172	Z85173	Z85174
Rot	Z85181	Z85182	Z85183	Z85184	Z85185	Z85186	Z85187	Z85188	Z85189	Z85190	Z85191	Z85192	Z85193	Z85155
Weiß	Z85221	Z85222	Z85223	Z85224	Z85225	Z85226	Z85227	Z85228	Z85229	Z85230	Z85231	Z85232	Z85233	
Green	Z85235	Z85236	Z85234	Z85237	Z85239	Z85238	Z85240	Z85241	Z85245	Z85246	Z85247	Z85248		

Created by: VS 20.11.2020

We reserve the right to make product changes.

**RELIABLE, FLEXIBLE,  
CUSTOMER-ORIENTED**

**HEINRICH THULESIUS GMBH & CO. KG**  
Zum Panrepel 15, D-28307 Bremen, GERMANY



#### SERVICE

Tel: +49 (0) 421-48 95-0  
Fax: +49 (0) 421-48 95-225  
E-Mail: [info@thulesius.de](mailto:info@thulesius.de)  
[www.thulesius.de](http://www.thulesius.de)

# HEAT-SHRINKABLE TUBING

## HTS-B2

SUMITUBE®, Made of Polyolefin, Thin walled, Flexible, Excellent quality

### Technical characteristics

Property	Test	Inspection requirements	Typical values
Physical	Longitudinal change by shrinking	SAE-AS23053, max. $\pm$ 5%	0% - -2%
	Density	ASTM D 792, 1,35 max.	1,34
	Tensile strength	ASTM D 638, min. 10,4 MPa	$\geq$ 14 MPa
	Elongation at break	ASTM D 638, min. 200%	$\geq$ 400%
	Secant modulus	ASTM D 882, max. 173 MPa	65 MPa
Thermal	Operating Temperature	SAE-AS23053	-55 °C to 135 °C
	Min. Shrink Temperature	For complete shrinkage	90°C
	Shrinkage begins at		60°C
	Heat Shock (250°C x 4h)	SAE-AS23053, no cracking, flowing or dripping	Passed
	Elongation after thermal aging (175°C x 168h)	SAE-AS23053, Min. 100% Elongation	4,2
	Low temperature flexibility (-55 °C x 4 h)	SAE-AS23053, no cracks	Passed
	Copper corrosion (175 °C x 16 h)	SAE-AS23053, no corrosion	Passed
Colour stability (175 °C x 24 h)	SAE-AS23053, no changes	Passed	
Chemical	Flammability	UL 224, VW-1	Passed
	Water absorption	ASTM D 570, max. 0,5%	0,0025
	Fluid resistance (24 °C x 24 h)	SAE-AS23053, min. 6,9 MPa (tensile strength)	7,25 - 14 MPa
	Fungus resistance	SAE-AS23053, ASTM G21	Passed
	Ozone and UV resistance	NF F 00-608, no cracking or sweating; UV resistance acc. to DIN EN ISO 4892	Passed
Electrical	Nominal voltage	UL 224,	600V
	Breakdown test (2.5 kV x 60 sec.)	UL 224, no breakdown	Passed
	Volume resistance	ASTM D 876, min. $10^{14}$ $\Omega$ /cm	$3,1 \times 10^{14}$ $\Omega$ /cm
	Dielectric strength	ASTM D 876, min. 19,7 kV/mm	$\geq$ 30 kV/mm

Sumitube HTS-B2 black has passed the artificial weathering / UV test according

Created by: VS 20.11.2020

We reserve the right to make product changes.

**RELIABLE, FLEXIBLE,  
CUSTOMER-ORIENTED**

**HEINRICH THULESIUS GMBH & CO. KG**

Zum Panrepel 15, D-28307 Bremen, GERMANY



SERVICE

Tel: +49 (0) 421-4895-0

Fax: +49 (0) 421-4895-225

E-Mail: [info@thulesius.de](mailto:info@thulesius.de)

[www.thulesius.de](http://www.thulesius.de)

**SUMITOMO  
ELECTRIC  
GROUP**