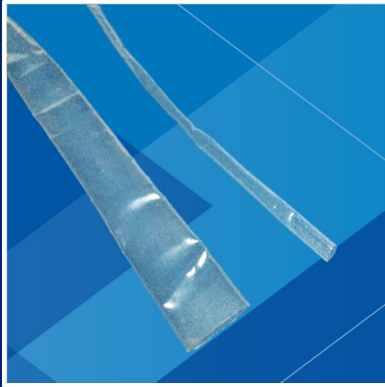


# HEAT-SHRINKABLE TUBING

## HTC-PTFE-V

Flexible, High Temperature Rated Fluoropolymer Shrink Tube



### Highlights

- Operating temperature - 200 °C to 260 °C
- Almost universal chemical resistance
- High thermal resistance
- Very good workability
- Shrink ratio 4:1
- Not flammable
- Approval: none, according to UL, CSA

### Dimensions

Art.No.	ID Supplied (mm)		ID Recovered (mm)		Standard Package	
	Inch	Internal Diameter	Internal Diameter	Wall Thickness	Bar (m)	Box (m)
Z86501	5/64	1.98	0.64	0.23	1.22	61
Z86502	1/8	3.18	0.94	0.25	1.22	61
Z86511	3/16	4.75	1.27	0.31	1.22	61
Z86503	1/4	6.35	1.60	0.31	1.22	30,5
Z86504	3/8	9.52	2.44	0.31	1.22	18,3
Z86505	1/2	12.70	3.66	0.38	1.22	18,3
Z86506	5/8	15.88	4.52	0.38	1.22	18,3
Z86507	3/4	19.05	5.70	0.38	1.22	12,2
Z86508	1	25.40	7.06	0.38	1.22	12,2
Z86509	1 1/4	31.75	8.82	0.38	1.22	12,2
Z86511	2	50.80	13.20	0.50	1.22	12,2
Z86512	3	76.20	19.68	0.50	1.22	12,2

Spools on request

### Technical characteristics

Property	Test Method	Requirement	Typical Value
Physical	Longitudinal Change	± 10%	± 10%
	Hardness	ISO 1183, 2.14 - 2.19 g/cm <sup>3</sup>	
	Tensile Strength	ISO 527, 29.0 MPa	≥ 29 MPa
	Elongation at Break	ISO 527, 250%	≥ 200%

Created by: NH 03042020

We reserve the right to make product changes.

**RELIABLE, FLEXIBLE,  
CUSTOMER-ORIENTED**

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



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# HEAT-SHRINKABLE TUBING

## HTC-PTFE-V

Flexible, High Temperature Rated Fluoropolymer Shrink Tube

Property	Test Method	Requirement	Typical Value
Physical	Tensile Strength at 23 °C	ISO 527, 29 - 29 MPa	
	Tensile Strength at 150 °C	14 - 20 MPa	
	Yield Stress 23 °C	ISO 527, 10 MPa	
	Young`s Modulus at 23 °C	ISO 527, 400 - 800 MPa	
	Limiting bending stress 23 °C	ISO 178, 18 - 20 MPa	
	Flexural Modulus of elasticity	ISO 527, 600 - 800 MPa	
	Ball indentation hardness 23 °C	ISO 2039, 25 - 30	
	Rockwell Hardness R	ISO 2039, 20 - 30	
	Shore Hardness D	ISO 868, 55 - 72	
	Friction coefficient	0.05 - 0.2	
Thermal	Continuous Operating Temp.	-200 °C to 260 °C	-200 °C to 260 °C
	Melting Temperature	ISO 11357, 330 °C	330 °C
	Thermal Conductivity at 23 °C	ISO, W/(m*k) 0.23	0.23
	Specific heat at 23 °C	kJ/(kg*k), 1.01	1.01
	Oxygen Index	> 95 %	
Chemical	Flammability	According to UL 94, V-0	Not flammable
	Water absorption at 23°C saturation	<0.05%	<0.05%
Electrical	Dielectric constant at (100 Hz)	IEC60250, <2.10	<2.10
	Dielectric loss factor at (100 Hz)	0.50-0.70 * 10 <sup>-4</sup>	0.50-0.70 * 10 <sup>-4</sup>
	Specific contact resistance	IEC 60093, > 10 <sup>16</sup> Ω	> 10 <sup>16</sup> Ω
	Surface resistance	DIN 53482, > 10 <sup>16</sup> Ω	> 10 <sup>16</sup> Ω
	Tracking resistance	IEC 60112, 600 CTI	600 CTI
	Dielectric strength	IEC 60243-2, > 40kV/mm	> 40kV/mm

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