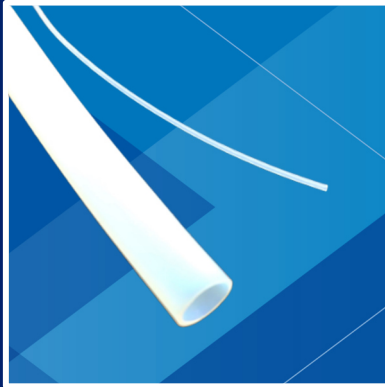


INSULATING TUBING

HTI-PTFE

Isotop Electro-Insulation sleeving, made of PTFE, thermal resistant



Highlights:

- Very good sliding properties
- -200 °C to +260 °C
- UV-resistant
- Water repellend
- Good electrical properties
- Almost universal chemical resistance
- Colour: natural
- RoHS and REACH compliant

Dimensions

Art.-No.	Reference	Inner diameter (mm)	Wall thickness (mm)	Standard packaging (m)
Z84102	HTI-PTFE-0,5x0,15	0,50	0,15	Depending on requested quantity
Z84130	HTI-PTFE-0,6x0,25	0,60	0,25	
Z84160	HTI-PTFE-0,7x0,3	0,70	0,3	
Z84133	HTI-PTFE-0,9x0,3	0,90	0,3	
Z84162	HTI-PTFE-1x0,4	1,00	0,4	
Z84134	HTI-PTFE-1x0,3	1,00	0,3	
Z84108	HTI-PTFE-1,1x0,15	1,10	0,15	
Z84164	HTI-PTFE-1,2x0,4	1,20	0,4	
Z84165	HTI-PTFE-1,4x0,4	1,40	0,4	
Z84166	HTI-PTFE-1,5x0,4	1,50	0,4	
Z84114	HTI-PTFE-2,2x0,2	2,20	0,2	
Z84143	HTI-PTFE-2,4x0,3	2,40	0,3	
Z84171	HTI-PTFE-2,7x0,4	2,70	0,4	
Z84145	HTI-PTFE-3x0,38	3,00	0,38	
Z84175	HTI-PTFE-4,2x0,51	4,20	0,51	
Z84178	HTI-PTFE-6x0,51	6,00	0,51	
Z84180	HTI-PTFE-7,5x0,51	7,50	0,51	
Z84154	HTI-PTFE-8,4x0,3	8,40	0,3	

Further sizes and wall thicknesses on request, also in AWG-sizes.

Materials such as PFA, FEP, ETFE, PVDF, ... are also available.

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
www.thulesius.de

**SUMITOMO
ELECTRIC
GROUP**

INSULATING TUBING

HTI-PTFE

Isotop Electro-Insulation sleeving, made of PTFE, thermal resistant

Technical characteristics

Property	Test	Inspection requirements	Typical values
Physical	Tensile strenght	at 23 °C, DIN ISO R 527	29 - 39 MPa
	Tensile strength	at 150 °C	14 - 20 MPa
	Stretch limit	at 23 °C, ISO 527	10 MPa
	Ultimate elongation	at 23 °C, DIN ISO R 527	200 - 500%
	Tensile modulus	at 23 °C, DIN ISO R 527	400 - 800 MPa
	Flexural stress at given strain	at 23 °C, ISO 178	18 - 20 MPa
	Flexural modulus	ISO 527	600 - 800 MPa
	Ball impression hardness	at 23 °C, ISO 2039	25 - 30
	Rockwell hardness R	ISO 2039	20 - 30
	Shore hardness	ISO 868	D 55 - 72
	Coefficient of friction		0,05 - 0,2
Thermal	Melting temperature	ISO 11357	327 °C
	Operating temperature		-200 °C to +260 °C
	Linear coefficient of thermal expansion	DIN 52612	10 - 16 (10 ⁻⁵ x K ⁻¹)
	Thermal conductivity	ISO, at 23 °C	0,23 W/m x K
	Specific heat	at 23 °C	
	Oxygen index		>95%
Chemical	Density	DIN ISO 1183	2,14 - 2,19 g/cm ³
	Water absorption	at 23 °C saturation	<0,05%
	Flammability	UL94 V-0	Self-extinguishing
Electrical	Dielectric constant at 100 Hz	IEC 60250	< 2,1
	Dielectric constant at 10 ⁶ Hz		< 2,1
	Dielectr. loss factor at 100 Hz		0,5 - 0,7 x 10 ⁻⁴
	Specific volume resistance	IEC 60093	>10 ¹⁸ Ω
	Surface resistance	DIN 53482	>10 ¹⁶ Ω x cm
	Tracking resistance	IEC 60112	600 CTI
	Dielectric strength	IEC 60243-2	>40 kV/mm

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