

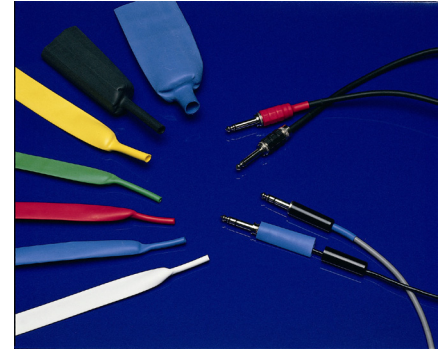
Sumitube™ B2(3x)

Single Wall Polyolefin, 3:1

Operating temperature: -55 up to 135°C

Surface: Matt

Marking: None



- ▶ CSA C 22.2 No. 198.1: 125°C 600V VW-1 (File No. 033298-0-000)
- ▶ UL 224 125°C 600V VW-1 (File No. E48762)



Dimensions

TRADE SIZE	BEFORE SHRINKAGE		AFTER SHRINKAGE		DELIVERY UNITS	
	[mm]	Inner diameter (EID) min. [mm]	Inner diameter (RID) max. [mm]	Wall thickness (RWT) min.-max. [mm]	Unit quantity [m]	Box quantity [m]
1,5/0,5		1,50	0,50	nom. 0,50	150	1200
3/1		3,00	1,00	nom. 0,60	150	1200
6/2		6,00	2,00	nom. 0,70	75	450
9/3		9,00	3,00	nom. 0,80	75	825
12/4		12,0	4,00	nom. 0,85	50	550
18/6		18,0	6,00	nom. 1,00	30	300
24/8		24,0	8,00	nom. 1,20	30	180
40/13		40,0	13,0	nom. 1,25	30	150



Colours & Technical drawing

STANDARD COLOURS	SPECIAL COLOURS	TECHNICAL DRAWING
black	upon request	<p>Tube Front</p> <p>Expanded (as supplied)</p> <p>Recovered (after shrinkage)</p> <p>D= Inside diameter expanded d= Inside diameter recovered W= Wall thickness expanded w= Wall thickness recovered</p>
blue		
red		
white		
yellow		

Technical properties

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	REQUIREMENT	TYPICAL VALUE *
Longitudinal change	SAE-AS23053	Min. -15%	-7%
Specific gravity	ASTM D792		1.34
Tensile strength (500mm/min)	ASTM D638	Min. 10.4 MPa	12.1 MPa
Elongation at break (500mm/min)	ASTM D638	Min. 200%	440 %
Secant modulus	ASTM D882	Max. 173 MPa	Pass

THERMAL PROPERTIES

PROPERTY	TEST METHOD	REQUIREMENT	TYPICAL VALUE *
Operating temperature		-55 up to 135°C	-55 up to 135°C
Min. shrink temperature	Shrink curve	Full recovery	105°C
Shrinking starts at	Shrink curve		60°C
Heat shock (250°C x 4h)	SAE-AS23053	No crack, flowing or dripping	Pass
Heat ageing (158°C x 168h) - Tensile strength	UL 224	Min. 7.3 MPa	12.5 MPa
- Elongation	UL 224	Min. 100%	450%



- Dielectric withstand (2.5kV AC x 60s)	UL 224	No breakdown	Pass
- Dielectric breakdown	UL 224	Min. 2.5 kV AC and min. 50% of original value	Pass
Cold bend (-30°C x 1h)	UL 224	No crack	Pass
Copper corrosion (158°C x 168h)	UL 224	No corrosion	Pass
Stability against copper (158°C x 168h)	UL 224	Elongation: Min. 100%	405%

CHEMICAL PROPERTIES

PROPERTY	TEST METHOD	REQUIREMENT	TYPICAL VALUE *
Flammability	UL 224	VW-1	Pass

ELECTRICAL PROPERTIES

PROPERTY	TEST METHOD	REQUIREMENT	TYPICAL VALUE *
Voltage rating	UL 224	600V	
Dielectric voltage withstand (2.5kV x 60s)	UL 224	No breakdown	Pass
Dielectric breakdown	ASTM D876	Min. 2.5 kV	24.8 kV
Volume resistivity	ASTM D876	Min. $10^{14} \Omega \cdot \text{cm}$	$5.8 \times 10^{14} \Omega \cdot \text{cm}$

* For reference purposes only