

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)
 SAE-AMS-DTL-23053/5 class 1&3 (except sizes/LC)
 UL 224 125°C 600V VW-1 (File No. E48762)

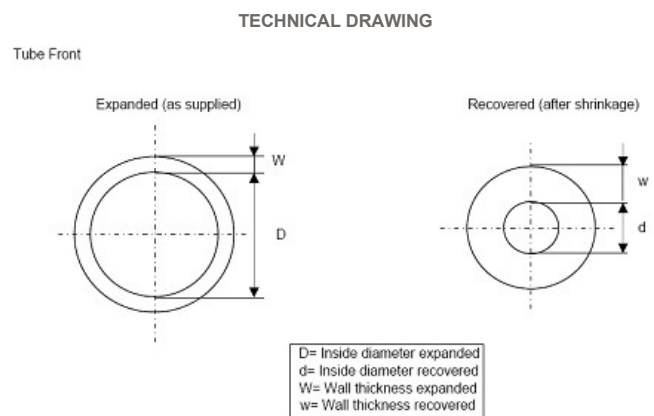
Dimensions

BEFORE SHRINKAGE		AFTER SHRINKAGE		DELIVERY UNITS	
Inner diameter (EID) min.		Inner diameter (RID) max.	Wall thickness (RWT) min-max	Unit quantity	Box quantity
[type]	[mm]	[mm]	[mm]	[m]	[m]
1,5/0,5	1,50	0,50	nom. 0,50	300	900
3/1	3,00	1,00	nom. 0,60	150	900
4,8/1,6	4,80	1,60	nom. 0,65	100	500
6/2	6,00	2,00	nom. 0,70	60	300
9/3	9,00	3,00	nom. 0,80	60	300
12/4	12,0	4,00	nom. 0,85	60	300
18/6	18,0	6,00	nom. 1,00	60	180
24/8	24,0	8,00	nom. 1,20	60	180
40/13	40,0	13,0	nom. 1,25	60	180

Colours & Technical drawing

STANDARD COLOURS
black
blue
red
white
yellow

SPECIAL COLOURS
upon request



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Technical properties

PHYSICAL PROPERTIES			
PROPERTY	TEST METHOD	REQUIREMENT	TYPICAL VALUE
Longitudinal Change	SAE-AMS-DTL-23053	-5% ± 10%	-7%
Specific Gravity	ASTM D 792		1,34
Tensile Strength	ASTM D 638	Min. 10,4 MPa	≥ 12 MPa
Elongation at Break	ASTM D 638	Min. 200%	≥ 400 %
Secant Modulus	ASTM D 882	Max. 173 MPa	65 MPa

THERMAL PROPERTIES			
PROPERTY	TEST METHOD	REQUIREMENT	TYPICAL VALUE
Operating Temperature	SAE-AMS-DTL-23053	-55 up to 135°C	-55 up to 135°C
Min. Shrink Temperature	Arrhenius-Plot	full recovery	90°C
Shrinking starts at	Arrhenius-Plot		60°C
Heat Shock (250°C x 4h)	SAE-AMS-DTL-23053	no crack, flowing or dripping	Pass
Elongation after heat ageing (158°C x 168h)	SAE-AMS-DTL-23053	Min. 100%	≥ 400%
Cold bend (-55°C x 4h)	UL 224	no cracking	Pass
Copper Corrosion (158°C x 168h)	SAE-AMS-DTL-23053	no corrosion	Pass
Stability against copper (158°C x 168h)	SAE-AMS-DTL-23053	Elongation: Min. 100%	Pass

CHEMICAL PROPERTIES			
PROPERTY	TEST METHOD	REQUIREMENT	TYPICAL VALUE
Flammability	UL 224	VW-1	Pass
Water Absorption	ASTM D 570	Max. 0,5%	0,25%
Fluid Resistance (after immersion 23°C x 24h)	SAE-AMS-DTL-23053	Min. 6,9 MPa (Tensile Strength)	7,25 - 14 MPa
Fungus Resistance	SAE-AMS-DTL-23053	ASTM G 21	Pass
Ozone resistance	NF F 00-608	No cracking or sweating	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
Volume Resistivity	ASTM D 876	Min. 10 ¹⁴ Ω·cm	3,1 x 10 ¹⁴ Ω·cm
Dielectric Strength	ASTM D 876	Min. 19,7 kV/mm	≥ 37 kV/mm