

Sumitube® B55

Single Wall Polyolefin, 2:1
Operating Temperature: -70 up to 135°C

Surface: Matt
Marking: None



ASTM
FMVSS 302

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]
1,2	1,20	0,60	nom. 0,31	500	2500
1,6	1,60	0,80	nom. 0,33	500	2000
2,4	2,40	1,20	nom. 0,36	500	2000
3,2	3,20	1,60	nom. 0,39	300	1500
4,8	4,80	2,40	nom. 0,42	150	750
6,4	6,40	3,20	nom. 0,45	100	500
9,5	9,50	4,80	nom. 0,48	100	500
12,7	12,7	6,40	nom. 0,52	100	600
19,1	19,1	9,50	nom. 0,58	100	500
25,4	25,4	12,7	nom. 0,67	100	500
31,8	31,8	15,9	nom. 0,76	100	200
38,1	38,1	19,1	nom. 0,76	100	300
50,8	50,8	25,4	nom. 0,85	100	200
76,2	76,2	38,1	nom. 0,95	80	80
101,6	101,6	50,8	nom. 1,05	80	80
127,0	127,0	63,5	nom. 1,40	30	30

Colours & Technical drawing

STANDARD COLOURS

black

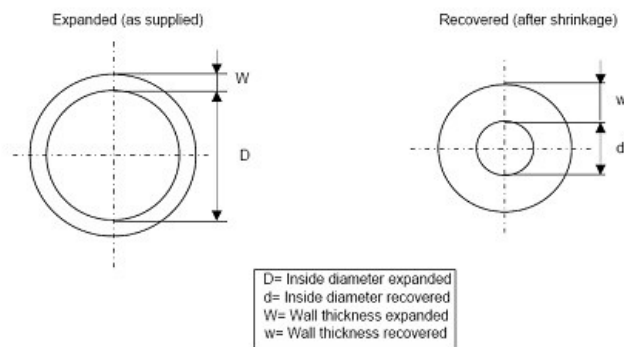


SPECIAL COLOURS

upon request

TECHNICAL DRAWING

Tube Front



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Technical properties

PHYSICAL PROPERTIES			
PROPERTY	TEST METHOD	REQUIREMENT	TYPICAL VALUE
Longitudinal Change	SAE-AS23053	-5% ± 10%	-5%
Specific Gravity	ASTM D 792	nom. 1,1	Pass
Tensile Strength	ASTM D 638	Min. 10,4 MPa	Pass
Elongation at Break	ASTM D 638	Min. 200%	≥ 400%
Secant Modulus	ASTM D 882	Max. 173 MPa	≤ 100 MPa

THERMAL PROPERTIES			
PROPERTY	TEST METHOD	REQUIREMENT	TYPICAL VALUE
Operating Temperature	Life-Curve	-70 up to 135°C	-70 up to 135°C
Min. Shrink Temperature	Shrink curve	full recovery	90°C
Shrinking starts at	Shrink curve		60°C
Heat Shock (225°C x 4h)	UL 224	no crack, flowing or dripping	Pass
Elongation after heat ageing (136°C x 168h)	SAE-AS23053	Min. 100%	≥ 170%
Tensile Strenght after heat ageing (136°C x 168h)	SAE-AS23053	Min. 7,3 MPa	Pass
Cold bend (-70°C x 4h)	UL 224	no cracking	Pass
Copper Corrosion (175°C x 16h)	UL 224	no corrosion	Pass

CHEMICAL PROPERTIES			
PROPERTY	TEST METHOD	REQUIREMENT	TYPICAL VALUE
Flammability	FMVSS 302	Pass	Pass
Fluid Resistance (after immersion 24°C x 24h)	SAE-AS23053	Min. 10,4 MPa (Tensile Strength)	Pass
Fluid Resistance (after immersion 24°C x 24h)	SAE-AS3053	Min. 200% (Elongation)	Pass

ELECTRICAL PROPERTIES			
PROPERTY	TEST METHOD	REQUIREMENT	TYPICAL VALUE
Voltage Rating			600V
Dielectric Voltage Withstand (2.5kV x 60s)	UL 224	no breakdown	Pass
Volume Resistivity	ASTM D 257	Min. 10 ¹⁴ Ω·cm	Pass
Dielectric Strength	ASTM D 876	Min. 19,7 kV/mm	≥ 23 kV/mm

Tested fluids: (24 hrs at 23°C)

Gasoline. Simulated Windshield cleaner. Brake fluid. Anti-freezing fluid. battery fluid. Engine oil. Torque conversion oil.