

Basic Properties

- (1) Materials : Irradiated cross-linked flexible polyolefin
- (2) Shrink temperature : min. 110°C
- (3) Shrink Ratio : Radial change: min. 50%
Longitudinal change: 0 +/- 5%
- (4) Continuous Operating Temperature : -55 to 135°C

Features

- (1) SAE-AMS-DTL-23053 approved
- (2) Transparent colours
- (3) Flexible

Specification/Approvals

SAE-AMS-DTL-23053/5 CLASS 2

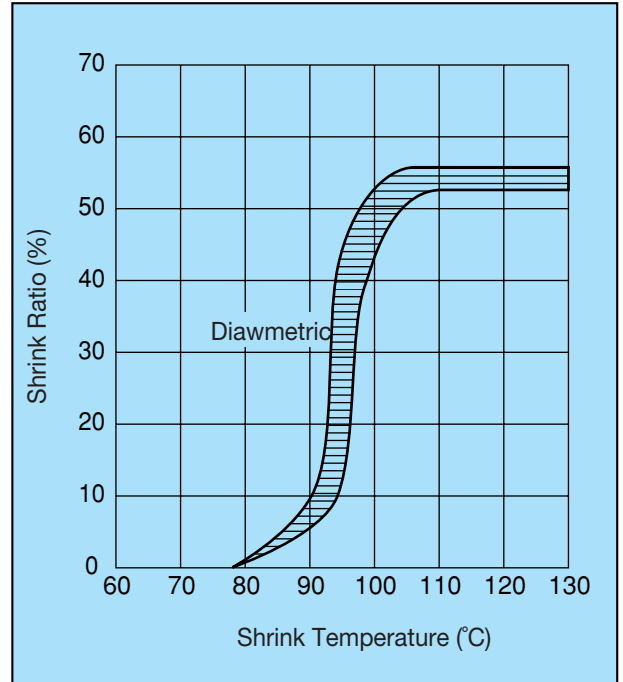
Application

- (1) Insulation, protection and reinforcement for termination and joints of electric wire
- (2) Fixing and protection for cable labels

Colours

Clear

Shrink Property



Properties [based on SAE-AMS-DTL-23053/6 Class 2]

Properties	Items	Requirements	Typical values*1
Mechanical	Tensile strength (before aging)	min. 10.4MPa	20.4MPa
	Elongation (before aging)	min. 200%	520%
	Elongation (after aging)	175°C x 7 days, min. 100%	425%
	Low temperature flexibility	-55°C x 4 hours, no crack	pass
	Heat shock	250°C x 4 hours, no crack	pass
	Gravity	max. 1.00	0.92
Electrical	Dielectric strength	min. 19.7kV/mm	38.8kV/mm
	Volume resistivity	min. 1.0 x 10 ¹⁴ Ω·cm	5.2 x 10 ¹⁶ Ω·cm
Chemical	Water absorption	23°C x 24 hours, max. 0.50%	0.10%
	Corrosion against bare copper	175°C x 16 hours, no corrosion	pass
	Transparent stability	175°C x 24 hours, no change	pass
	Fluid resistance	After immerced at 24°C x 24 hours,	
	Tensile strength	min. 6.9MPa	13.7MPa
	Dielectric strength	min. 15.8kV/mm	41.9kV/mm
	Flammability	Flammable	—

*1: For reference use only

Sizes

Nominal size (inch)	Supplied ID (mm)		Recovered ID (mm)		Unit length (min.) (m)	
	Inside diameter	Wall thickness (nom.)	Inside diameter (max.)	Wall thickness	Cut	Spool
3/64	1.60 ± 0.30	0.20	0.60	0.41 ± 0.07	1.22	305
1/16	2.00 ± 0.30	0.20	0.80	0.43 ± 0.07	1.22	305
3/32	2.70 ± 0.30	0.25	1.20	0.51 ± 0.07	1.22	152.5
1/8	3.50 ± 0.30	0.25	1.60	0.51 ± 0.07	1.22	152.5
3/16	5.20 ± 0.30	0.30	2.40	0.51 ± 0.07	1.22	61
1/4	6.8 ± 0.4	0.30	3.20	0.64 ± 0.07	1.22	61
3/8	10.0 ± 0.4	0.30	4.80	0.64 ± 0.07	1.22	61
1/2	13.2 ± 0.5	0.30	6.4	0.64 ± 0.07	1.22	61
3/4	20.0 ± 0.6	0.40	9.5	0.76 ± 0.07	1.22	61
1	26.6 ± 0.8	0.45	12.7	0.89 ± 0.12	1.22	61
1-1/2	39.3 ± 1.0	0.45	19.1	1.02 ± 0.15	1.22	61
2	52.7 ± 1.5	0.50	25.4	1.14 ± 0.17	1.22	61
3	77.7 ± 1.5	0.55	38.1	1.27 ± 0.20	1.22	61
4	106.0 ± 3.0	0.60	50.8	1.40 ± 0.22	1.22	30.5