

■ Basic Properties

- 1) Materials : Cross-linked flexible polyolefin resin
- 2) Shrink temperature : 90°C min.
- 3) Shrink ratio (Radial change) : 40% min.
- 4) Longitudinal change : -15% min.
- 5) Continuous operating temperature : -55 to 105°C

■ Features & Benefits

- 1) Low temperature shrinking (90°C)
- 2) Flexible
- 3) Transparent colors

■ Specifications / Approvals

SFP standard (R4-0580)

■ Applications

- 1) Insulation, protection and reinforcement of terminations and joints of electric wires
- 2) Color identification and bundling of electric wires
- 3) Fixing and protection of cable labels
- 4) Insulation and protection of resistances and capacitors

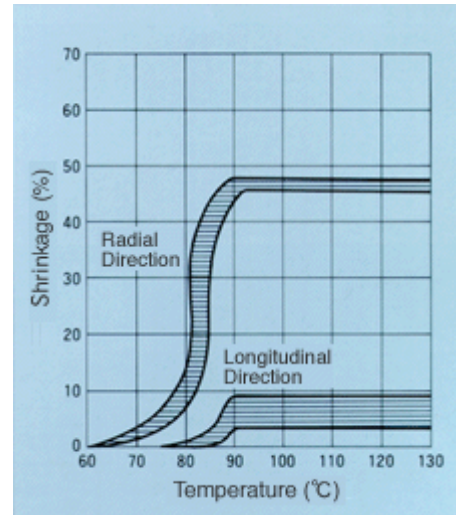
■ Colors

Standard colors : Black, brown, red, orange, yellow, green, blue, violet, gray, white and clear

■ Properties

Properties	Items	Requirements	Typical Values* ¹
	Tensile Strength (before aging)	10.3MPa{1.05kg/mm ² } min.	20.9MPa{2.13kg/mm ² }

■ Shrinkage-Temperature Curve



The above curve chart shows the shrink ratio in each direction. The shrink ratio in longitudinal direction should be indicated with negative sign. (ex. 15% → -15%)

Mechanical	Ultimate Elongation (before aging)	200% min.	522%
	Specific Gravity	-	0.94
	Hardness (Shore-D)	-	41
Electrical	Dielectric Voltage Withstand (before aging)	AC2.5kV × 60 sec. No breakdown	Pass
	Volume Resistivity	$10^{14} \Omega \cdot \text{cm}$ min.	$1.2 \times 10^{16} \Omega \cdot \text{cm}$
Chemical	Water Absorption	23°C × 24hours, 0.30% max.	0.08%
	Flammability	Flammable	-

*1 : Not guaranteed values

■ Sizes

Nominal Size (mm)	As Supplied (mm)		After Full Recovery (mm)		Unit Length(min.) (m)	
	Inside Diameter	Wall Thickness (nom.)	Inside Diameter (max.)	Wall Thickness (nom.)	Cut	Spool
1 × 0.2	1.60±0.30	0.20	0.60	0.40±0.10	1	100
1.5 × 0.2	2.10±0.30	0.20	0.80	0.40±0.10	1	200
2 × 0.2	2.60±0.30	0.20	1.30	0.40±0.10	1	200
2.5 × 0.2	3.10±0.30	0.20	1.50	0.40±0.10	1	200
3 × 0.2	3.60±0.30	0.20	1.80	0.40±0.10	1	200
3.5 × 0.2	4.10±0.30	0.20	2.00	0.40±0.10	1	100
4 × 0.2	4.60±0.30	0.20	2.30	0.40±0.10	1	100
5 × 0.2	5.60±0.30	0.20	2.90	0.40±0.10	1	50
6 × 0.25	6.5±0.3	0.25	3.50	0.50±0.10	1	50
7 × 0.25	7.5±0.3	0.25	4.20	0.50±0.10	1	50
8 × 0.25	8.5±0.3	0.25	4.70	0.50±0.10	1	50
9 × 0.25	9.5±0.3	0.25	5.40	0.50±0.10	1	50
10 × 0.25	10.5±0.4	0.25	6.0	0.50±0.10	1	50
11 × 0.25	11.5±0.4	0.25	7.0	0.50±0.10	1	50
12 × 0.3	12.4±0.4	0.30	7.6	0.60±0.10	1	50
13 × 0.3	13.4±0.4	0.30	8.0	0.60±0.10	1	50
14 × 0.3	14.4±0.4	0.30	9.0	0.60±0.10	1	50
15 × 0.3	15.4±0.4	0.30	10.0	0.60±0.10	1	50

16 × 0.3	16.4±0.4	0.30	10.5	0.60±0.10	1	50
18 × 0.3	18.4±0.4	0.30	11.5	0.60±0.10	1	50
20 × 0.3	20.4±0.4	0.30	13.0	0.60±0.10	1	50
22 × 0.3	22.4±0.4	0.30	14.0	0.60±0.10	1	50
25 × 0.3	25.5±0.5	0.30	15.0	0.60±0.10	1	50

▲Caution!

All statements and technical information contained herein are based on tests we believe to be liable and only general properties are described. Therefore, safety of each specific application by the users should not be guaranteed. The users themselves should determine product conformance to your specific applications and assume all responsibility for all damages that may be caused directly or indirectly when using the products.