

### SBRSM-NF

#### Medium Wall Adhesive Lined and rigid Heat Shrinkable Tubing

Medium wall heat shrinkable tubing provides maximum reliability for insulation and protecting cable joint and terminations, Non-Flame Retardent

##### Features

- The start of Shrink Temperature: 70℃
- The end of Shrink Temperature: 125℃
- Operating Temperature: -45℃~125℃
- Shrink Ratio: 3: 1
- Compliant: ROHS
- Standard color: black





#### Technical Data

| Property               | Test Method         | Standard                              |
|------------------------|---------------------|---------------------------------------|
| Tensile Strength(MPa)  | ASTM D 2671         | $\geq 14\text{MPa}$                   |
| Elongation(%)          | ASTM D 2671         | $\geq 400\%$                          |
| Elongation after aging | UL 224 158°C×168hrs | $\geq 300\%$                          |
| Longitudinal change    | UL 224              | -8%~+8%                               |
| Dielectric strength    | IEC 243             | $\geq 20\text{kV/mm}$                 |
| Volume resistivity     | IEC 93              | $\geq 10^{14} \Omega \cdot \text{cm}$ |
| Copper stability       | ASTM D 2671         | passed                                |
| Water Absorption       | ISO 62              | $< 0.5\%$                             |

#### Hot Melt Adhesive Property

| Property           | Test Method | Standard  |
|--------------------|-------------|-----------|
| Softening Point    | ASTM D E28  | 85°C      |
| Water Absorption   | ASTM D 570  | $< 0.2\%$ |
| Peel Strength (PE) | ASTM D 1000 | 120N/25mm |
| Peel Strength (AL) | ASTM D 1000 | 80N/25mm  |

#### Dimensions

| size<br>mm  | AS<br>SUPPLIED<br>INTERNAL<br>DIAMETER<br>mm | AFTER RECOVERY( mm)  |                                 |                                       |                         | STANDARD<br>LENGTH(M/PC<br>) |
|-------------|----------------------------------------------|----------------------|---------------------------------|---------------------------------------|-------------------------|------------------------------|
|             |                                              | INTERNAL<br>DIAMETER | OUTLAYER<br>WALL THICK-<br>NESS | ADHESIVE LAY-<br>ER WALL<br>THICKNESS | TOTAL WALL<br>THICKNESS |                              |
| Φ6.0 /2.0   | $\geq 6.0$                                   | $\leq 2.0$           | $1.4 \pm 0.20$                  | $0.45 \pm 0.10$                       | $1.85 \pm 0.25$         | 1.22                         |
| Φ8.0/ 2.0   | $\geq 8.0$                                   | $\leq 2.0$           | $1.4 \pm 0.20$                  | $0.45 \pm 0.10$                       | $1.85 \pm 0.25$         | 1.22                         |
| Φ10.2/ 3.0  | $\geq 10.2$                                  | $\leq 3.0$           | $1.4 \pm 0.20$                  | $0.50 \pm 0.10$                       | $1.90 \pm 0.25$         | 1.22                         |
| Φ12.0/ 3.0  | $\geq 12.0$                                  | $\leq 3.0$           | $1.4 \pm 0.20$                  | $0.50 \pm 0.10$                       | $1.90 \pm 0.25$         | 1.22                         |
| Φ16.0/ 5.0  | $\geq 16.0$                                  | $\leq 5.0$           | $1.5 \pm 0.20$                  | $0.55 \pm 0.15$                       | $2.15 \pm 0.30$         | 1.22                         |
| Φ19.1/ 5.6  | $\geq 19.1$                                  | $\leq 5.6$           | $1.8 \pm 0.20$                  | $0.60 \pm 0.15$                       | $2.40 \pm 0.30$         | 1.22                         |
| Φ22.0/ 6.0  | $\geq 22.0$                                  | $\leq 6.0$           | $2.0 \pm 0.30$                  | $0.60 \pm 0.15$                       | $2.60 \pm 0.30$         | 1.22                         |
| Φ25.0/ 8.0  | $\geq 25.0$                                  | $\leq 8.0$           | $2.0 \pm 0.30$                  | $0.65 \pm 0.15$                       | $2.70 \pm 0.30$         | 1.22                         |
| Φ28.0/ 6.0  | $\geq 28.0$                                  | $\leq 6.0$           | $2.4 \pm 0.30$                  | $0.95 \pm 0.20$                       | $3.30 \pm 0.35$         | 1.22                         |
| Φ33.0/ 8.0  | $\geq 33.0$                                  | $\leq 8.0$           | $2.5 \pm 0.30$                  | $0.80 \pm 0.15$                       | $3.30 \pm 0.35$         | 1.22                         |
| Φ38.1/ 12.0 | $\geq 38.1$                                  | $\leq 12.0$          | $2.4 \pm 0.30$                  | $0.80 \pm 0.15$                       | $3.30 \pm 0.35$         | 1.22                         |
| Φ43.2/ 12.7 | $\geq 43.2$                                  | $\leq 12.7$          | $2.4 \pm 0.30$                  | $0.80 \pm 0.15$                       | $3.30 \pm 0.35$         | 1.22                         |
| Φ55.0/ 16.0 | $\geq 55.0$                                  | $\leq 16.0$          | $2.4 \pm 0.30$                  | $0.80 \pm 0.15$                       | $3.30 \pm 0.35$         | 1.22                         |
| Φ65.0/ 19.0 | $\geq 65.0$                                  | $\leq 19.0$          | $2.5 \pm 0.30$                  | $0.80 \pm 0.15$                       | $3.30 \pm 0.40$         | 1.22                         |
| Φ75.0/ 22.0 | $\geq 75.0$                                  | $\leq 22.0$          | $2.9 \pm 0.30$                  | $0.80 \pm 0.15$                       | $3.70 \pm 0.40$         | 1.22                         |
| Φ85.0/ 25.0 | $\geq 85.0$                                  | $\leq 25.0$          | $2.9 \pm 0.30$                  | $0.80 \pm 0.15$                       | $3.70 \pm 0.40$         | 1.22                         |
| Φ95.0/ 30.0 | $\geq 95.0$                                  | $\leq 30.0$          | $3.0 \pm 0.30$                  | $0.80 \pm 0.15$                       | $3.80 \pm 0.40$         | 1.22                         |
| Φ115/ 34.0  | $\geq 115$                                   | $\leq 34.0$          | $3.0 \pm 0.30$                  | $0.80 \pm 0.15$                       | $3.80 \pm 0.40$         | 1.22                         |
| Φ140/ 42.0  | $\geq 140$                                   | $\leq 42.0$          | $3.0 \pm 0.30$                  | $0.80 \pm 0.15$                       | $3.80 \pm 0.40$         | 1.22                         |
| Φ160/ 50.0  | $\geq 160$                                   | $\leq 50.0$          | $3.1 \pm 0.30$                  | $0.80 \pm 0.15$                       | $3.90 \pm 0.40$         | 1.00                         |
| Φ180/ 65.0  | $\geq 180$                                   | $\leq 65.0$          | $3.1 \pm 0.30$                  | $0.80 \pm 0.15$                       | $3.90 \pm 0.40$         | 1.00                         |

|                 |            |             |                |                 |                 |      |
|-----------------|------------|-------------|----------------|-----------------|-----------------|------|
| $\Phi 200/69.0$ | $\geq 200$ | $\leq 69.0$ | $3.1 \pm 0.30$ | $0.80 \pm 0.15$ | $3.90 \pm 0.40$ | 1.00 |
| $\Phi 230/78.0$ | $\geq 230$ | $\leq 78.0$ | $3.1 \pm 0.30$ | $0.80 \pm 0.15$ | $3.90 \pm 0.40$ | 1.00 |