

IRRAX™ SLEEVE SNHM

[Halogen-free flame-retarded medium wall tubing]

✓ RoHS directive 10 substances

Waterproofing Flame-retarded UL recognized CSA recognized



Basic Properties

- Material: Cross-linked flexible flame-retarded polyolefin
- Shrink temperature : min. 110°C
- Shrink ratio : Radial change: min. 50%
: Longitudinal change: min. -15%
- Continuous operating temperature: -30 to 105°C

Features

- Halogen-free
- Reduced acidic gas emission and smoke generation in case of fire
- Flame-retarded
- High shrink ratio, 3:1
- Excellent encapsulation
- EN45545-2

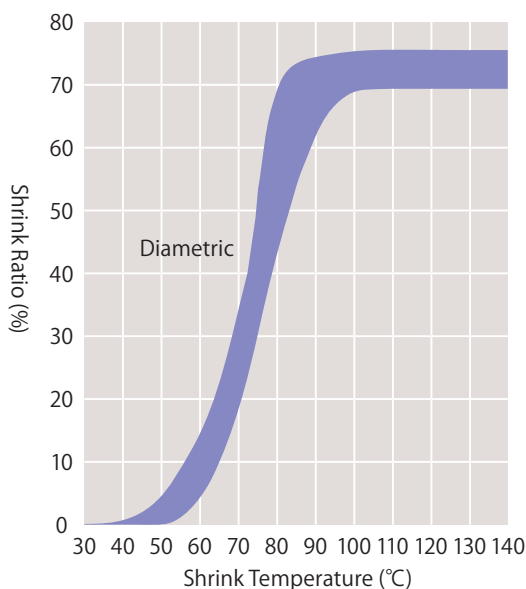
Applications

- Protection of cables and pipes for mass transit vehicles and ships or in tunnels and buildings
- Encapsulation of connectors and cables

Colors

- Black

Shrink Properties



Properties

Properties	Items	Requirement	Typical values*1
Mechanical	Tensile strength*3 (before aging)	min. 7.8MPa	11.3MPa
	Tensile strength*3 (after aging)	140°C x 168 hours, min. 5.4MPa	96%
	Elongation (before aging)	min. 200%	530%
	Elongation (after aging)	140°C x 168 hours, min. 100%	320%
	Low temperature flexibility	-30°C x 1 hour, no crack	Pass
Electrical	Volume resistivity	min. 1.0 x 10 ¹² Ω·cm	8.0 x 10 ¹⁴ Ω·cm
	Hardness		42
Chemical	Weather resistance for 4,000 hours		
	Tensile strength		98%
	Elongation		72%
	Flammability*2	Flame-retarded	Flame-retarded
	Oxygen index	—	26
	Copper mirror corrosion: 175°C x 16 hours	No corrosion	Pass
	EN45545-2 (R22,HL3)		
Oxygen index	min. 32%	37.4%	
Smoke density	max. 150	51.16	
Toxic fume emission	max. 0.75	0.05	

*1: For reference use only *2: Combustion Standards for Railway Vehicle Materials by Japan Railway Rolling Stock & Machinery Association
*3: Calculated by using outer cross section

Sizes

Trade size	As supplied (mm)		After recovered		Unit length (min.) (mm)
	Inside diameter (min.)	Inside diameter*4 (max.)	Wall thickness*4 (nom.)		
7/ 25— 900	23.0	7.0	1.50		900
11/ 25— 900	25.0	11.0	1.70		900
16/ 40— 900	40.0	16.0	1.70		900
20/ 50— 900	50.0	20.0	1.70		900
24/ 65— 900	65.0	24.0	2.30		900
28/ 75— 900	75.0	28.0	2.30		900
32/ 85— 900	85.0	32.0	2.30		900
33/110— 900	110.0	33.0	2.30		900
55/150— 900	150.0	55.0	3.00		900

Longitudinal change: min. -10% *4: Outer layer only

SUMITUBE™

A
C
A4
LA
C (UL)
D
A2

B
LB

F (Z)
F3 (Z)
NHR2
NHR4
V (300V)
V (600V)

F2 (Z)
F4 (Z)
B2
B2 (3X)
B8

K
K2

KH200 (TW)

KH230 (TW)

B6
R
AN25

W

O2C
W3C

O2B2
W3F2
W3B2
W3B2 (4X)
SA2
SA3

IRRAX™TUBE IRRAX™TAPE

A
B
F2
F2 (UL)
V2
RP3
B8
ER2
NHR
FE2
IRRAXTAPE VZL

IRRAX™SLEEVE

SCM2
IRRAXSLEEVE SBI 300/350
SNHM

Composite articles

SUMISEAL
SUMITUBE SA3 CAP

Processing equipment

SUMISHRINKER / HEATING GUN