

IRRAX™ TUBE B

[Heat-resistant, flame-retarded tubing]

Catalog No. 829 ✓ RoHS directive

Waterproofing Flame-retarded UL recognized CSA recognized



Basic Properties

- Material: Cross-linked flexible flame-retarded polyolefin
- Continuous operating temperature: -45 to 120°C

Features

- Flame-retarded (PBDE/PBB-free)

Specifications/Approvals

SFP standard (R1-0380)

Applications

- Insulation and heat protection of wire harnesses and parts for automobiles
- Protection of aircraft wiring where flame retardance is required
- Protection of lead wires and parts which are subject to high temperature

Colors

- Standard colors: Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, White (all colors are in pastel tone)

Properties

Properties	Items	Requirements	Typical values*1
Mechanical	Tensile strength	min. 10.4MPa	18.6MPa
	Elongation	min. 200%	450%
	Specific gravity	—	1.03
	Hardness (Shore D)	—	42
Electrical	Dielectric withstand (before aging)	AC2.5kV x 60 sec., no breakdown	Pass
	Volume resistivity	min. $1.0 \times 10^{14} \Omega \cdot \text{cm}$	$1.1 \times 10^{17} \Omega \cdot \text{cm}$
Chemical	Water absorption	23°C x 24 hours, max. 0.30%	0.15%
	Flammability	Flame-retarded (by FMVSS method*2)	Pass

*1: For reference use only *2: FMVSS = Federal Motor Vehicle Safety Standard (regulation in the U.S.A)

Sizes

Nominal size (mm)	Inside diameter (mm)	Wall thickness (mm)	Unit length (m)
0.7 × 0.35	0.70 ± 0.10	0.35 ± 0.05	1,000 min.
1 × 0.35	1.00 ± 0.10	0.35 ± 0.05	500 min.
1.5 × 0.35	1.50 ± 0.10	0.35 ± 0.05	400 min.
2 × 0.35	2.00 ± 0.20	0.35 ± 0.05	200 min.
3 × 0.35	3.00 ± 0.20	0.35 ± 0.05	400 min.
4 × 0.35	4.00 ± 0.30	0.35 ± 0.05	400 min.
5 × 0.35	5.00 ± 0.30	0.35 ± 0.05	200 min.
6 × 0.35	6.0 ± 0.5	0.35 ± 0.05	200 min.
8 × 0.4	8.0 ± 0.5	0.40 ± 0.05	100 min.
10 × 0.4	10.0 ± 0.5	0.40 ± 0.05	100 min.
12 × 0.4	12.0 ± 0.5	0.40 ± 0.05	100 min.
14 × 0.5	14.0 ± 0.5	0.50 ± 0.05	100 min.

Longitudinal change: min. -20% (125°C x 1 minute)

SUMITUBE™

A
LA
A4
C
C (UL)
D
A2

B
LB

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

F2 (Z)
F4 (Z)
B2
B2 (3X)
B8
V (600V)
K

K2

AN25

B6

O2C
W3C

O2B2
W3F2
W3B2
W3B2 (4X)
SA2
SA3

W

IRRAX™ TUBE IRRAX™ TAPE

A
B
F2
F2 (UL)
V2
RP3
B8
ER2
NHR
NHR4
FE2
VZL

IRRAX™ SLEEVE

SCM2
SBI
300/350
SCD
SNHM

Composite articles

SUMISEAL
SA3 CAP

Processing equipment

SUMISHRINKER / HEATING GUN