

SUMITUBE™

IRRAX™ TUBE RP3

[Very flexible heat-resistant tubing] UL recognized

Catalog No. 702 ✓ RoHS directive 10 substances

Waterproofing Flame-retarded UL recognized CSA recognized



Basic Properties

- Material: Cross-linked very flexible flame-retarded polyolefin
- Continuous operating temperature: -55 to 105°C

Features

- Very flexible
- Flame-retarded (PBDE/PBB-free)

Specifications/Approvals

UL224

File No.: E75077

Operating temperature: 105°C

Voltage rating: 300V

Flammability rating: VW-1

Electrical Appliance and Material Safety Law (Japan)

Registration of flammability rating (-F-)

(Registration No.: F-ST53-009 to F-ST53-016)

Marking on Surface

UL 105 VW-1 SUMITOMO-K IRRAX™ TUBE RP3 -F-

UL indicates UL logotype.

Applications

- Insulation, protection and reinforcement of terminations and joints of electric wires
- Identification and bundling of electric wires

Colors

- Black

Properties

Properties	Items	Requirements	Typical values*
Mechanical	Tensile strength (before aging)	min. 10.4MPa	12.5MPa
	Tensile strength (after aging)	136°C x 7 days, min. 7.3MPa	12.8MPa
	Elongation (before aging)	min. 200%	425%
	Elongation (after aging)	136°C x 7 days, min. 100%	450%
	Heat shock	250°C x 4 hours, no crack	Pass
	Cold bend	-30°C x 1 hour, no crack	Pass
Electrical	Dielectric withstand (before aging)	AC2.5kV x 60 sec., no breakdown	Pass
	Dielectric withstand (after aging)	136°C x 7 days, AC2.5kV x 60 sec., no breakdown	Pass
	Dielectric breakdown (before aging)	min. AC2.5kV	16.4kV
	Dielectric breakdown (after aging)	136°C x 7 days, min. 50% of original and min. AC2.5kV	Pass
	Volume resistivity	min. $1.0 \times 10^{14} \Omega \cdot \text{cm}$	$3.0 \times 10^{14} \Omega \cdot \text{cm}$
Chemical	Corrosion against bare copper	136°C x 7 days, no corrosion after leaving under 95% humidity, 23°C x 24 hours	Pass
	Stability against copper	136°C x 7 days, elongation min. 100% after leaving under 95% humidity, 23°C x 24 hours	425%
	Flammability	Flame-retarded, pass VW-1	Pass

*: For reference use only

Sizes

Trade size (mm)	Inside diameter (mm)	Wall thickness (mm)	Unit length (m)
3 × 0.5	3.00 ± 0.15	0.50 ± 0.06	400 min.
4 × 0.5	4.00 ± 0.20	0.50 ± 0.06	200 min.
5 × 0.5	5.00 ± 0.20	0.50 ± 0.06	200 min.
6 × 0.5	6.0 ± 0.2	0.50 ± 0.06	100 min.
7 × 0.5	7.0 ± 0.3	0.50 ± 0.06	100 min.
8 × 0.5	8.0 ± 0.3	0.50 ± 0.06	100 min.
9 × 0.5	9.0 ± 0.3	0.50 ± 0.06	100 min.
10 × 0.5	10.0 ± 0.4	0.50 ± 0.06	100 min.
12 × 0.5	12.0 ± 0.4	0.50 ± 0.06	100 min.

Longitudinal change: 0 ± 5%

IRRAX™ TUBE
IRRAX™ TAPE

A
B
F2
F2 (UL)
V2
IRRAX™ TUBE RP3
B8
ER2
NHR
FE2
IRRAX™ TAPE VZL

IRRAX™ SLEEVE

SCM2
IRRAX™ SLEEVE SBI 300/350
SNHM

Composite articles

SUMISEAL
SUMITUBE SA3 CAP

Processing equipment

SUMISHRINKER / HEATING GUN
