

Irrax™ tubeER2 (150°C Heat-resistant, Flame-retardant tubing)

★ RoHS Compliant

● Basic Properties

- (1) Materials : Cross-linked, flexible, flame-retardant polyolefin resin
- (2) Continuous operating temperature : -55 to 150°C

● Features & Benefits

- (1) Highly heat resistant
- (2) Flame-retardant
- (3) Excellent in abrasion resistant

● Specifications & Approvals

SFP standard (RE1-2998)

● Marking

◆ SUMITOMO IRRAX TUBE ER2

● Applications

- 1) Insulation and heat protection of wire harnesses and parts for automobile
- 2) Protection of wiring where flame-retardant is required
- 3) Protection of lead wires and parts which are subject to high temperature

● Colors

Standard colors : Black

● Properties

Properties	Items	Requirements	Typical values
Mechanical	Tensile Strength(before aging)	15.7MPa min.	23.4MPa
	Tensile Strength(after aging)	180°C×200 hours, 9.8MPa min.	22.2MPa
	Ultimate Elongation(before aging)	150% min.	430%
	Ultimate Elongation(after aging)	180°C×200hours, 50% min.	420%
	Heat shock	250°C×4 hours, No crack	Pass
	Cold bend	-55°C×4 hours, No crack	Pass
	Secant Modulus	107.9±9.6MPa	106.4MPa
Electrical	Dielectric Voltage Withstand (before aging)	A.C.2.5kV×60 sec., No breakdown	Pass
	Dielectric Voltage Withstand (after aging)	180°C×200 hours, A.C.2.5kV×60 sec., No breakdown	Pass
	Volume Resistivity	1.0×10 ¹⁰ Ω·cm min.	1.8×10 ¹⁶ Ω·cm
Chemical	Flammability	Flame-retardant (UL224 All Tubing Flame Test)	Pass

● Sizes

Nominal Size	Inside Diameter (mm)	Wall Thickness (mm)	Unit Length (m)
6×0.45×200M	6.0±0.5	0.45±0.05	200 min.
8×0.45×100M	8.0±0.5	0.45±0.05	100 min.
10×0.45×100M	10.0±0.5	0.45±0.05	100 min.
12×0.45×100M	12.0±0.5	0.45±0.05	100 min.

Longitudinal change : -10% min. (125°C×5 minutes)

● Disclaimer

All statements and technical information contained herein are based on tests we believe to be reliable and only general properties are described. Therefore, safety of each specific application by the users is not 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.