

Irrax™ tube FE2 (Fluorine elastomer heat-resistant tubing)

★ RoHS Compliant

● Basic Properties

- (1) Materials : Cross-linked, flexible, flame-retardant fluorine elastomer
- (2) Continuous operating temperature : -40 to 200°C

● Features & Benefits

- (1) Excellent oil, High heat, and chemical resistance
- (2) Flexible
- (3) Flame-retardant

● Specifications & Approvals

SFP standard (R1-8792)

● Applications

- (1) Protection of wires where heat and oil resistances are required
- (2) Protection of wiring where flexibility is required

● Colors

Standard colors : Black

● Properties

Properties	Items	Requirements	Typical values
Mechanical	Tensile Strength (before aging)	8.2MPa min.	23.2MPa
	Tensile Strength (after aging)	250°C×7 days, 8.2MPa min.	10.7MPa
	Ultimate Elongation (before aging)	200% min.	220%
	Ultimate Elongation (after aging)	250°C×7 days	180%
	Secant Modulus	—	120MPa
	Heat Shock	300°C×4 hours, No cracking	Pass
Electrical	Dielectric Voltage Withstand (before aging)	A.C.2.5kV×60 sec., No breakdown	Pass
	Volume Resistivity	$1.0 \times 10^{12} \Omega \cdot \text{cm}$ min.	$1.5 \times 10^{14} \Omega \cdot \text{cm}$
Chemical	Oil Resistance	Automatic transmission oil 150°C×1,000 hours	
	Tensile Strength	8.2MPa min.	23.6MPa
	Ultimate Elongation	100% min.	233%
	Flammability	Flame-retardant	

● Sizes

Nominal Size	Inside Diameter (mm)	Wall Thickness (mm) (Typical Values)	Outside Diameter (mm)	Unit Length (m)
2.4×3.2	2.40±0.20	0.40	3.20±0.30	100 min.
4.5×5.5	4.50 -0.30, +0.50	0.50	5.50 -0.30, +0.50	100 min.
6×7.0	6.0 -0.40, +0.50	0.50	7.0 -0.40, +0.60	100 min.
7×8.0	7.0 -0.40, +0.60	0.50	8.0 -0.40, +0.60	100 min.

Longitudinal change: -10% min. (200°C×10 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.