

IRRAX[®] TUBE ER2

IRRADIATED CROSSLINKED FLEXIBLE POLYOLEFIN TUBING, FLAME RETARDED



RoHS/RoHS2 Compliant



Lead-Free

TYPICAL FEATURES

- 1) Irrax[®] Tube ER2 is an irradiated, cross-linked, thermally stabilized, flexible, flame-retarded, heat-resistant polyolefin tubing.
- 2) Operating temperature range is -55^o C to +150^o C.
- 3) Irrax[®] Tube ER2 is highly abrasion resistant in elevated temperature environments such as within automotive engine compartments.
- 4) Typical applications include automotive wire harness assemblies requiring higher temperature resistance.

STANDARD SIZES

SIZE	INSIDE DIAMETER (MM)	WALL THICKNESS (MM)	Length (M)
6x0.45	6.0 +/- 0.5	0.45 +/-0.05	200 min
8x0.45	8.0 +/- 0.5	0.45 +/-0.05	100 min
10x0.45	10.0 +/- 0.5	0.45 +/-0.05	100 min
12x0.45	12.0 +/- 0.5	0.45 +/-0.05	100 min
14x0.45	14.0 +/- 1.5	0.45 +/-0.05	100 min
18x0.45	18.0 +/- 1.5	0.45 +/-0.05	100 min
20x0.45	20.0 +/- 2.0	0.65 +/-0.10	50 min

Standard Colors: Black

Standard Package: Coil (for Unit length, see the above table)

How to Order: (Type of material) (Size) (Color) (Packaging)

Example: Irrax[®] Tube ER2 10x0.45 Black 100m coil

IRRAX[®] TUBE ER2 SPECIFICATION VALUES

PROPERTY (UNITS)	TEST METHOD	REQUIREMENT
Physical: Tensile strength (psi) Elongation (%) Heat shock (200 °C, 30min) Heat resistance (180 °C, 200Hrs) Tensile Strength (psi) Elongation (%) Low temperature flex (-55 °C, 4hrs) Secant Modulus (psi)	ASTM D638 ASTM D638 ASTM D638 ASTM D638 AMS-DTL-23053 ASTM D882	2300 min. 150 min. no cracking 1400 min 50 min no cracking 1.9 x 10 ⁴ max.
Electrical: Dielectric withstand Voltage (1000V, 1min) Volume resistivity (ohm-cm)	UL 224 ASTM D 876	no breakdown 1.0 X 10 ¹⁰ min.
Chemical: Fluid resistance (50 ⁰ C, 20 Hrs.) Tensile Strength Elongation Flammability	UL 224 ASTM D638 ASTM D638 UL 224 AFT	no corrosion 70% min of original 70% min of original pass


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