

QFR-135

ADHESIVE LINED FULLY FLAME-RETARDANT POLYOLEFIN HEAT SHRINKABLE TUBING SHRINK RATIO 4:1

Features/Applications

Fully flame-retardant jacket and adhesive provide strain relief and abrasion protection of splices and joints of wire harness, terminals, and components. 4:1 shrink ratio allows it to easily fit a wide range of components, and is suitable for use in the automotive harness market.

- Operating temperature: -40°C to +135°C
- Minimum shrink temperature: 110°C
- Minimum Full recovery temperature: 135°C
- Standard colors: Black with a white adhesive liner
- RoHS Compliant



Technical Data

Property	Test Method	Test Requirements
Tensile Strength	ASTM D 2671	>10.4 MPa
Ultimate Elongation	ASTM D 2671	250% minimum
Secant Modulus at 2% (expanded)	ASTM D 2671	241MPa minimum
Heat Shock	250°C, 4 hrs.	No cracking, no dropping
Flammability	ISO 6722-1	Self extinguish in 30 seconds
Cold Bend (-30°C, 4 hr.)	UL 224	No cracking
Thermal aging 130°C for 168Hrs followed by immersion leak resistance		Max. 0.25µA
Volume Resistance	ASTM D 2671	>10 ¹³ Ω.cm
Resistance to Liquid Chemicals Water Tightness	GMW 17136	Max. 5µA
Dielectric Strength (Jacket Only)	ASTM D 2671	19.0KV/mm Min.
Fluid Resistance 24Hrs @ 25°C ± 3°C Fuel C Diesel Fuel 1Hr @ 100°C ± 3°C ASTM #3 Oil followed by immersion leak resistance		Max. 0.25µA

Product Dimensions

Size	As Supplied (mm)		After Recovered (mm)			Standard Packaging	
	Inside Diameter (min.)	Inside Diameter (max.)	Wall Thickness (min.)	Adhesive Thickness (nom.)	Cut to Length Pcs. (QB)* Qty per bag		
					6"	48"	
0	5.1	1.3	1.08	0.68	20	5	
1	7.6	1.7	1.21	0.71	16	5	
2	9.0	2.3	1.21	0.71	14	5	
3	11.6	2.5	1.98	1.32	12	5	
4	17.8	4.4	2.23	1.35	12	5	

Notes:

- * See Part Number Guide for standard packaging codes.
- Cross Reference Guide available.
- Special sizes, packaging, colors and cut pieces are available upon request.