

SHRINK RATIO 3:1

Features/Applications

QFRA is made from radiation cross-linked polyolefin lined with hot melt adhesive. Suitable for protecting electrical splices, joints and terminations where flame retardant, electrical insulation and water proof are required.

- Operating temperature: -55°C to +110°C
- Minimum shrink temperature: 120°C
- Standard color: Black
- · RoHS Compliant



Property	Test Method	Typical Data	
Tensile Strength	ASTM D 2671	≥ 14 MPa	
Tensile Strength after Aging (158°C, 168 hrs.)	ASTM D 2671	≥ 12MPa	
Longitudinal Change after Shrinking	ASTM D 2671	0 to -10%	
Elongation at Break	ASTM D 2671	≥ 300%	
Elongation at Break after Aging (120°C, 168 hrs.)	ASTM D 2671	≥200%	
Dielectric Strength	IEC 243	≥20kV/mm	
Heat Shock (225°C, 4 hrs.)	ASTM D 2671	No cracking or flowing	
Volume Resistance	IEC 93	\geq 10 ¹⁴ Ω .cm	
Flammability	SAE-AMS-DTL-23053/5	Self extinguish in 30 seconds	

Thermoplastic Adhesive for QFRA3

Property	Test Method	Typical Data				
Water Absorption	ISO 62	< 0.2%				
Softening Point	ASTM D E28	85°C				
Peel Strength (PE)	DIN 30672	4N/cm				
Copper Stability	ASTM D 2671	Non-Corrosive				
Resistance to Fungus and Decay	ISO 846	Pass				

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Product Dimensions								
	As Supplied (mm)	After Recovered (mm)			Standard Packaging			
Size (mm)	Inside Diameter (min.)	Inside Diameter (max.)	Total Wall Thickness (min.)	Tubing Shape	Cut to Length Pcs. *(QB) Qty per bag 48"			
9/3	9	3	2.0	Round	5			
13/4	13	4	2.5	Round	5			
22/6	22	6	2.7	Round	5			
33/8	33	8	3.2	Round	5			
40/12	40	12	4.1	Round	5			
55/16	55	16	4.1	Round	5			
75/22	75	22	4.1	Round	3			
95/29	95	29	4.1	Round	3			
115/34	115	34	4.3	Round	3			
130/36	130	36	4.3	Round	3			

Notes: 1. * See Part Number Guide for standard packaging codes. 2. Special sizes, packaging, colors and cut pieces are available upon request.