

## QNBK RoHS Compliant

**QUICK SEAL, DUAL WALL ADHESIVE LINED HEAT SHRINKABLE TUBING  
HALOGEN FREE, SHRINK RATIO 4:1**

### Features/Applications

Specially designed to protect inline splices, wire harness joints, and grounding ring terminals against damage in automotive environments. The clear jacket with black meltable thermoplastic adhesive allows for quick inspection after installation. QNBK provides outstanding physical, chemical, and electrical properties.

- Operating temperature: -40°C to +125°C
- Minimum Full recovery temperature: 115°C
- Standard color: Clear jacket with inner Black adhesive
- RoHS Compliant



Technical Data			
Property	Test Method	Required Value	Typical Value
<b>Shrinking properties</b>			
Longitudinal Shrinkage	ASTM D 2671	-10% to 0%	-5% to 0%
<b>Physical properties for Jacket</b>			
Tensile Strength	ASTM D 2671	10.4MPa Min	23MPa
Ultimate Elongation	ASTM D 2671	Min 250%	858%
Heat Shock (225°C / 4 hrs)	ASTM D 2671	No cracking, flowing dropping	No cracking, flowing dropping
Low Temperature Flexibility (-40°C / 4 hrs)	ASTM D 2671	No cracking	No cracking
Short term aging (150°C / 240 hrs)	ASTM D 2671	>10MPa	17.6MPa
Tensile Strength	GMW 17136	>250%	437%
Ultimate Elongation			
<b>Electrical properties for Jacket</b>			
Dielectric Strength	ASTM D 2671	Min 15.7KV/mm	21.3KV/mm
Volume Resistivity	ASTM D 2671	Min 10 <sup>12</sup> Ω.cm	1.78 <sup>12</sup> Ω.cm
<b>Splice performance properties</b>			
Water tightness	GMW 17136	Max 5µA	Pass
Pressure test (0.7bar/15s) Water tightness	GMW 17136	No bubbles Max 5µA	Pass
Strain Relief (50N) Water tightness	GMW 17136	Max 5µA	Pass
Short term aging (150°C / 240 hrs) Water tightness	GMW 17136	Max 5µA	Pass

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			
					50mm	65mm	75mm	48in
1	5.72	1.27	1.20	0.56	2000	2000	2000	5
2	7.44	1.65	1.52	0.76	1000	1000	1000	5
3	10.85	2.41	1.91	1.02	800	800	800	5
3A	14.00	3.00	2.30	1.10	300	300	300	5
4	17.78	4.45	2.41	1.37	200	200	200	5

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