

Features

TNL-1 is a flexible, flame retardant, irradiated polyolefin heat shrink tubing with adhesive (EVA).

TNL-1 offers both insulation and sealing for protection and meets the most stringent industrial and military requirements.

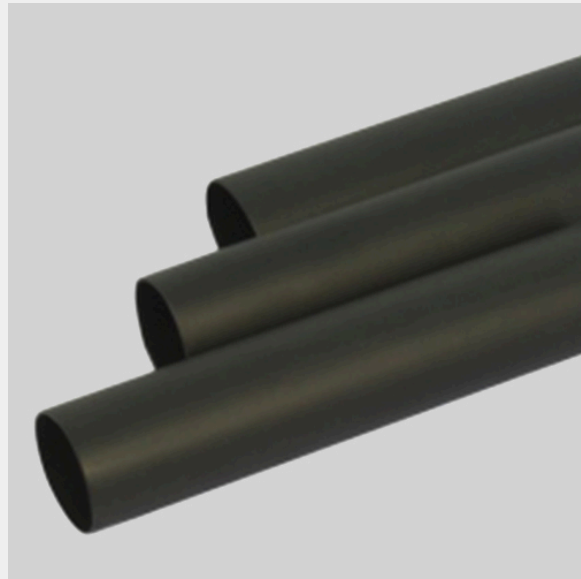
TNL-1 is particularly suited to protect automotive cables, wire bundles and metal tubes against water and moisture where flame retardant properties are required.

Standard colours: Black and transparent.

Special sizes and colours available on request.

UL File number: E479361

*All colours except transparent.



Specifications

	Values	Test methods
Working temperature	-55 °C to +110 °C	
Longitudinal change	±10 %	
Density	≤ 1,40g/cm ³	ASTM D 792
Tensile strength	≥ 1,1 kgf/mm ²	ASTM D 638
Elongation at break	≥ 200%	MIL-I-23053
After aging, 168hrs, 150 °C		
– Tensile Strength	12MPa	ASTM D 2671
– Elongation at break	350%	MIL-I-23053
Heat shock (4h @ 250°C)	Pass	MIL-I-23053
Low temperature flexibility (4h @ -55°C)	No crack	MIL-I-23053
Secant modulus	≤ 173 MPa	ASTM D 882
Dielectric strength	≥ 19,7 kV/mm	ASTM D 2671
Volume resistivity	≥ 1×10 ¹⁴ Ω-cm	ASTM D 876
Flammability	Pass	ASTM D 2671
UV Resistance	Black colour	
Adhesive data:		
Property	Standard Performance	Test method
Water Absorption	≤ 0.2%	ASTM D 570
Softening Point(°C)	90±5	ASTM E 28
Strength of peeling (PE)	120N/25mm	ASTM D 1000
Strength of peeling (AL)	80N/25mm	ASTM D 1000