

LINQTAPE HDT1SR



Irreversible Hydrogen Detection Tape

- 100 um film thickness
- Visual H₂ leak detection
- 3,000V Breakdown voltage

LINQTAPE™ HDT1SR is an advanced solution for the visual detection of hydrogen gas leaks. This irreversible tape undergoes a rapid color change – transitioning from beige to black in as little as 10 seconds when exposed to hydrogen gas. The speed of this color transformation is contingent on factors like flow rate, temperature, time, and hydrogen percentage.

LINQTAPE™ HDT1SR provides an effective means of detecting gas leaks, significantly improving response time by facilitating the identification of intermittent leaks. Its high sensitivity allows it to detect hydrogen leaks with concentrations as low as 1% H₂, making it a reliable safety net in various applications.

LINQTAPE™ HDT1SR can be used in a variety of indoor or outdoor environments. It outperforms conventional portable or stationary sensors, offering superior detection and precise identification of hydrogen leak locations. This tape is less influenced by external factors such as wind, position, duration, or user skills. It provides comprehensive visibility, allowing for easy inspection of vertical and bottom faces.

Specifications

Property	Value	Unit
Color	Beige	-
Polymer Type	Silicone	-
Film Thickness	100 (3.9)	um (mil)
Release Liner Thickness	50 (2)	um (mil)
Release liner	Fluorosilicone	-
Total Thickness	150 (5.9)	um (mil)
Tensile Strength	0.32	kg/mm ²
Elongation	700	%
Breakdown Voltage	3,000	V
Operating Temperature	-40 ~80	°C
Tear Resistance	0.37	kg/mm ²

Storage and Handling

Shelf life is 6 months if stored in a dry and cool, well ventilated place at room temperature.

The product is supplied in rolls and should be kept in a cool (10°C – 25°C) dry place (20% – 60% humidity) away from direct sunlight or temperature extremes. Once removed from packaging it should be protected against dust and other impurities.

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