



140 High Performance Self-fusing Silicone Sealing Tape

TECHNICAL DATA SHEET



CONSTRUCTION

Material	Self-fusing Silicone Rubber
Liner	Polystyrene
Thickness	40 mil (1 mm)
Width	1 inch (25,4 mm)
Length	36 feet (11 m)
Profile	Triangular (Custom)
Color	Gray
Guideline	Red

PRODUCT INFORMATION

Product Description:

USI 140 is a self-fusing silicone rubber tape designed for leak sealing to mitigate leak damage during emergencies in harsh environments. Use on small diameter (1.5 in and under) punctured gas, steam or liquid pipelines.

Features:

- No Adhesive - Chemically bonds to itself on contact and will not stick to substrate
- Self-extinguishes when flame source is removed
- Little to no surface preparation required
- Extreme Temperature Range
- Chemical and UV resistant
- Easy to apply

APPLICATION EXAMPLES

- Steam lines
- Liquid cooling pipelines
- Irrigation hoses
- Low pressure distribution gas riser
- Air lines

APPLICABLE STANDARDS

- Meets UL 510 requirements
- UL 94 V-0 Class flame retardant
- Exceeds Military Specification MIL A-A-59163
- Class H Insulation

SPECIFICATIONS

Property	Test Method	Value
Continuous Temperature Range		-65°F to +450°F -54°C to +232°C
Intermittent Temperature Range (24 hrs max)		-85°F to 500°F -65°C to 260°C
Cold Brittle Point Max	ASTM D-2137	-85°F -65°C
Water Absorption	Fed STD 601 Method 6251	3% Max by weight
Tensile Strength	ASTM D-412	700 PSI Minimum
Elongation	ASTM D-412	300% Minimum
Dielectric Strength	ASTM D-412	16,000 V per layer
Tear Resistance		100 PSI
Durometer Hardness		50 Shore A
Thickness Tolerance		+/- .002 in +/- 0.05 mm
Width Tolerance		+/- 0.125 in +/- 3.175 mm

STORAGE / HANDLING / SHELF LIFE

Storage	Store in a cool and dry area, away from direct sunlight.
Handling	Keep tape roll clean and free of dust, dirt or debris.
Shelf Life	3 years

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Unconventional Solutions, Inc.
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