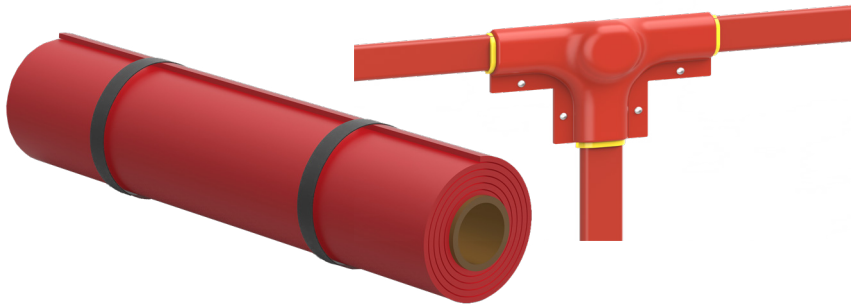


RAYCHEM HIGH VOLTAGE INSULATION SHEETS HVIS

WILDLIFE AND ASSET PROTECTION PRODUCTS



REDUCE THE NOXIOUS AND CORROSIVE EFFECTS IN THE EVENT OF FIRE THANKS TO A NON-HALOGEN BASED MATERIAL.

APPLICATIONS

- Substation Solutions
- Switchgear Solutions
- Medium Voltage Switchgears

RELEVANT STANDARDS AND TEST REPORTS

- Dielectric Strength - ASTM D149
- High Tracking Resistance - ASTM D2303
- Thermal Endurance - IEC 60216
- UV Weathering - ASTM G154

KEY FEATURES

- Simple on-site installation with a hot air device or gas torch
- Excellent anti-tracking properties
- Can be used both indoors and outdoors thanks to its excellent UV and weather-resistant qualities
- Compatible with our complete range of TE Raychem medium voltage insulating products
- Can be stored indefinitely at temperatures up to 50°C (122°F) without loss of performance

TE Connectivity (TE) Raychem hot melt, adhesive-coated, heat-shrinkable sheets HVIS provide insulation enhancement and protection against accidentally-induced discharge. Our HVIS sheets will provide flashover protection up to 17.5 kV or 25 kV if the void-filling mastic is applied underneath the sheet. It can also offer flashover protection up to 36 kV if a double layer of HVIS is used. Re-usable joint covers can also be made to allow access or maintenance when required.

Our HVIS sheets can be cut to size on-site and loosely secured with clamps and brackets. The clamps and brackets can be ordered separately as kits. Once installed, they can be removed and reused.

Our HVIS sheets cover almost any size or shape of busbar joint, making it ideal for insulating busbar tees, elbows, and other connections where tubes and tapes cannot be used. When heated HVIS sheets shrink in two directions to tightly conform to complex shapes, our TE Raychem void-filling mastic S1061 can be used to ensure uneven and protruding shapes are insulated. Our TE Raychem sealing mastic, S1085, can also provide an environmentally sealed connection.

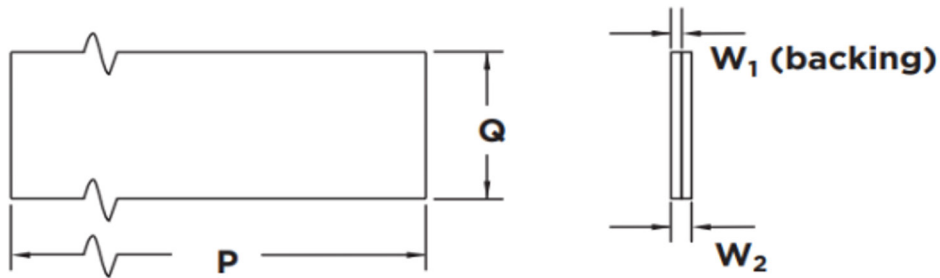
PRODUCT TECHNICAL SPECIFICATIONS

Part Numbers	Description	Product Dimensions				Supplied
		Length P a m (ft)	Width Q b mm (inch)	W1 b mm (inch)	W2 a mm (inch)	
244249-000	HVIS-05-(B3)-(NS)	0.5 (1.6)	660 (26)	1.5 (0.06)	2.4 (0.1)	Sheets
175849-000	HVIS-10-(B1)-(NS)	10 (32.8)	660 (26)	1.5 (0.06)	2.4 (0.1)	Roll

Note: a = as supplied b = after free recovery.

Longitudinal and transverse change after free recovery: -25 % ±10%.

When required, typically one piece of sealing mastic, S1085, is applied on each leg of the joint and one or two pieces of void filling mastic, S1061, are used to cover uneven shapes.



PRODUCT PERFORMANCE

Physical	Test Method	Test Requirement
Tensile Strength	ASTM D638	12 MPa (psi)
Ultimate Elongation	ASTM D638	500%
Thermal Endurance	IEC 60216	105°C min.
UV Weathering (5000 hrs)	ASTM G154	200%
Tracking and Eronson Resistance	ASTM D2303	No tracking or erosion to the top surface or flame failure after: 1 hr at 2.50 kV 1 hr at 2.75 kV 1 hr at 3.00 kV
Accelerate Ageing - 168 hrs at 150°C (302°F)	ASTM D2671 ASTM D638	12 MPa (psi) 500%
Electrical	Test Method	Test Requirement
Dielectric Strength (2.5 mm)	ASTM D149	16 kV/mm
Volume Resistance	ASTM D257	1E+13 Ωcm
Flame Retardancy	ANSI C37.20c	Pass
AC Withstand	IEEE Std. 4	Up to 75 kV
DC Withstand	IEEE Std. 4	Up to 144 kV
Impulse	IEEE Std. 4	Up to 175 kV

TEST REPORTS AND INSTALLATION INSTRUCTIONS

Document Reference	Description
EDR-5175	Performance Test Report
PPR-3326	Material Test Report
EPP-0623	Installation Instruction

TOOLING INFORMATION

Description	Information
HVIS-TOOLS-01	Spring Clamps (12x), Flat-steel Bar 350 x 20 mm (2x), Right Angle Steel Bar 120 x 120 mm (8x)
HVIS-TOOLS-02	Spring Clamps (24x), Flat-steel Bars 350 x 20 mm (2x), Right Angle Steel Bars 120 x 120 mm and 160 x 160 mm (8 each), Turning Pair Steel Bars 200 x 40 mm (1x), Vice-grip Wrench (1x), Hose clamps Ø 125 and Ø 160 mm (2 each)
S1061	Void Filling Mastic
S1085	Environmental Sealing Mastic

Learn more: [TE.com/energy](https://www.te.com/energy)

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