



Silicone Rubber Fusible Tape

FUJIPOLY 5TV Type

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FUJIPOLY DATA SHEET NUMBER FPDS 2K-26 / Version 7

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DATA SHEET FPDS 2K-26 (Version 7)

1] Product Name :

Insulation silicone Rubber Fusible Tape (FUJIPOLY 5TV Type)

2] Features :

By spiral wrapping each successive layer slightly over the previous one, the tape fuses to itself over the component. Bonding only to itself, the permanent fusion begins within three minutes after contact.

Once the amalgamation is cured, the protected area withstands exposure to moisture, electrical and mechanical shock, temperature extremes, UV and ozone without degradation. Accordingly, its use in a wide range of situations, not normally handled by a tape product, is extremely feasible and offers a considerable cost reduction versus otherwise common or alternate methods.

Available in two formulations : Insulation and Conductive. The insulation type (FUJIPOLY 5TV Type) can be substituted anywhere other forms of insulating materials are used ; such as, in place of custom die-cut pads, potting compounds and over-moldings.

Two profiles are available. rectangular and delta shaped. The rectangular is a typical tape shape (available for insulation type only) used universally for most applications: the delta shape facilitates spiral wrapping around cables and harnesses by way of its natural tendency to conform in a helix.

Insulation silicone Rubber Fusible Tape (FUJIPOLY 5TV Type)

- a) FUJIPOLY 5TV Type are class H (180°C / 360°F) electrical insulation tapes.
- b) Consisting self-amalgamating silicone rubber.
- c) They are applicable in a very wide range of temperatures.
- d) Developed by FUJIPOLY original silicone rubber technology.

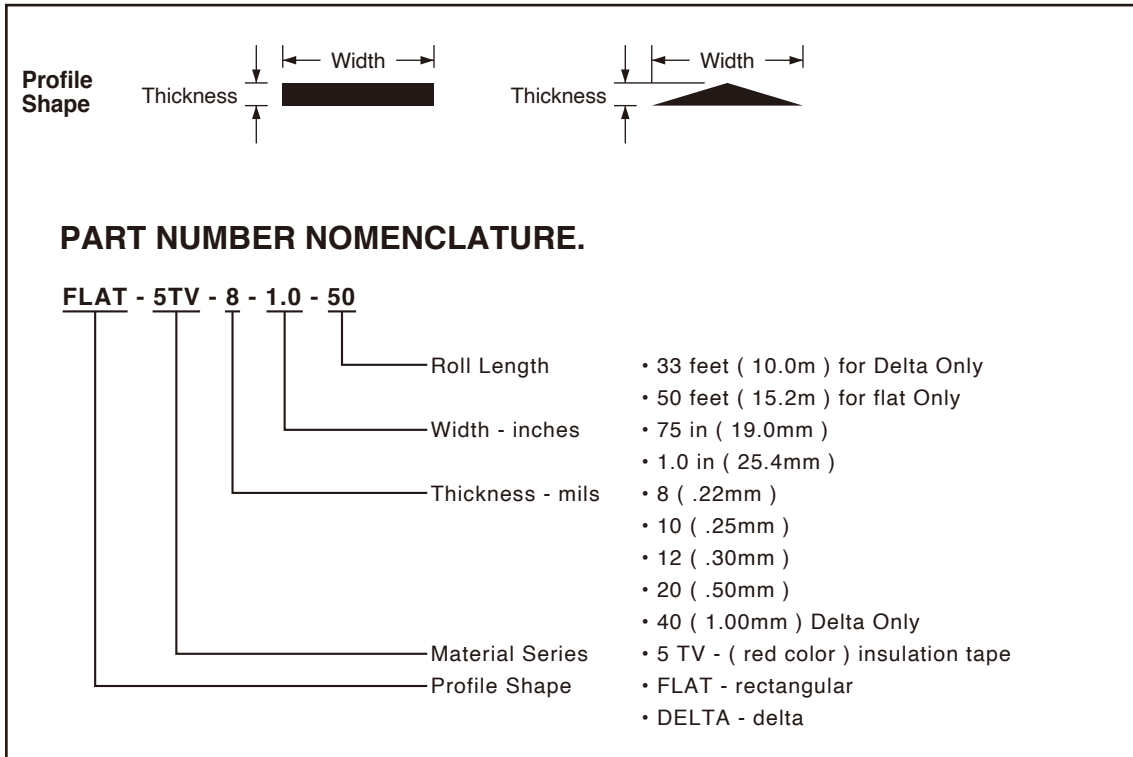
3] Typical Properties.

Table - 1

Insulation Tape Part Number	Color	Hardness (Shore A)	Tensile Strength (Kg)	Elongation (%)	Tear Strength (%)	Adhesive Force (gr)	Withstand Voltage (AC KV)	Volume Resistivity (ohms) Nomal	Volume Resistivity (ohms) Moist	Thermal Weight Loss (%)	Content Siloxane (wt.%)
FLAT - 5TV - 8 - .75	red	50±5	> 1.1	> 400	> 100	> 300	> 4.0	1.0x10 ¹⁵	1.0x10 ¹⁰	6.2% @ 225C (440°F) x24 Hrs	D ₄ ~D ₁₀ ~=0.27 D ₁₁ ~D ₂₀ ~=0.40 total=0.67
FLAT - 5TV - 8 - 1.0	red	50±5	> 1.5	> 400	> 100	> 400	> 4.0	1.0x10 ¹⁵	1.0x10 ¹⁰		
FLAT - 5TV - 10 - .75	red	50±5	> 1.8	> 400	> 100	> 300	> 4.2	1.0x10 ¹⁵	1.0x10 ¹⁰		
FLAT - 5TV - 10 - 1.0	red	50±5	> 2.5	> 400	> 100	> 400	> 4.2	1.0x10 ¹⁵	1.0x10 ¹⁰		
FLAT - 5TV - 12 - .75	red	50±5	> 2.7	> 400	> 100	> 300	> 4.5	1.0x10 ¹⁵	1.0x10 ¹⁰		
FLAT - 5TV - 12 - 1.0	red	50±5	> 3.5	> 400	> 100	> 400	> 4.5	1.0x10 ¹⁵	1.0x10 ¹⁰		
FLAT - 5TV - 20 - .75	red	50±5	> 4.5	> 400	> 100	> 300	> 5.0	1.0x10 ¹⁵	1.0x10 ¹⁰		
FLAT - 5TV - 20 - 1.0	red	50±5	> 6.0	> 400	> 100	> 400	> 5.0	1.0x10 ¹⁵	1.0x10 ¹⁰		
DELTA- 5TV - 40 - 1.0	red	50±5	> 5.6	> 400	> 100	> 400	> 6.0	1.0x10 ¹⁵	1.0x10 ¹⁰		

All dimensions in inches and millimeters.

Figure 1



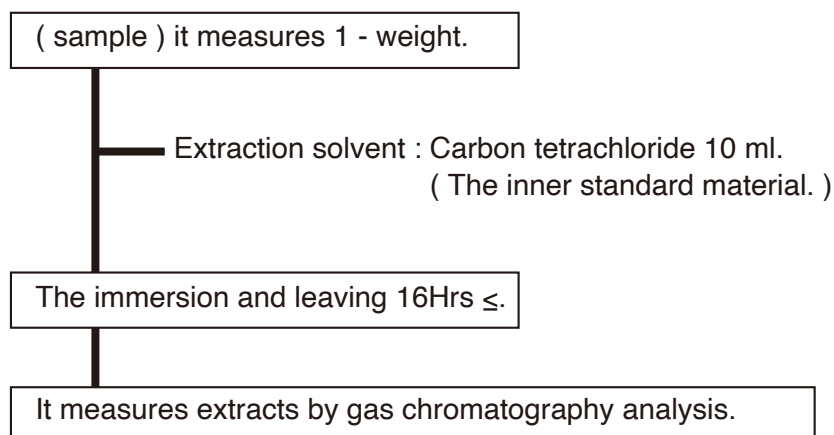
4] **Package** : 4 Rolls / 1 package

5] **Shelf Life** : 6 month after delivery at normal temperature.

6] **Test method for the Low Molecular Siloxane content** :

[Test method]

< The preprocessing >



< The measurement condition>

model : SHIMAZU SEISAKUSHO Co., Ltd. GC -12A

detector : FID (The hydrogen flame ionization detector.)

column : OV -17 (3m)

column temperature : 60°C • 2min – temperature-programmed 16°C/min–Maintenance 300°C

ventage temperature : 280°C

carrier gas flow rate : 40ml / min

inculcating quantity : 2μl

8] Others Technical Informations.

FUJIPOLY website <http://www.fujipoly.com/>

Notes :

- All FUJIPOLY test data in this document is based on FUJIPOLY test method and is believe to be accurate and reliable. Nevertheless, any FUJIPOLY test data shows typical product properties, and does not show the guaranteed product properties.
- Some Silicone oil could exude from the product according to operating conditions.
- Some low molecular Siloxane could vaporize from the product according to operating conditions.
- It is advisable to use the product under recommended operating condition. Some more Silicone oil could exude from the product if it was used over the recommended condition.
- It is advisable to use the product under parallel and even compression. Some more Silicone oil could exude from the product if it was used under excessive or partial stress.
- Products testing by the purchaser is recommended in order to meet expected results such as performance and application.

: March.24th 2023	FPDS 2K – 26 version 7	FUJIPOLY 5TV
: April.18th 2008	FPDS 2K – 26 version 6	
: January.16th 2006	FPDS 2K – 26 version 5	
: September.1st 2005	FPDS 2K – 26 version 4	
: February.14th 2003	FPDS 2K – 26 version 3	
: January.31th 2002	FPDS 2K – 26 version 2	
: March.3rd 2000	FPDS 2K – 26 version 1	FUJIPOLY 5TV,7KBC Type
: July.20th 1997	FPDS 97 – 12 version 3	FUJIPOLY 7KBC Type
: July.29th 1996	version 2	FUJIPOLY 5TV Type
ISSUED : April.12ed 1996	FPDS 96 – 03 version 1	FUJIPOLY 5TV Type

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