



SELF FUSING TAPE, Technical Data Sheet

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Section 1, INTRODUCTION

1.1 Self-Fusing Tape Summary

There are two groups of self-amalgamating tape available from TE Connectivity (TE).

Fusion Tape

Fusion tape is constructed from Polyisobutylene rubber and has a 5-year shelf life. The main features of Fusion tape are high electrical insulation range and cures at room temperature.

Silicone Fusion tape

Silicone Fusion tape is made from Silicone rubber, which has a 1-year shelf life but can cure at room temperature within 24 hours or less if heated and has a wide operating temperature range.

1.2 Environmental Compliance

A downloadable declaration and further information covering RoHS and REACH compliance can be found at the 'TE Product Compliance Support Centre':

[product-compliance](#)

Section 2, Fusion Tape (Polyisobutylene rubber)

DESCRIPTION

General-purpose, highly conformable self-amalgamating tape based on PIB (Polyisobutylene) rubber. It is a non-vulcanising tape with excellent electrical properties and can be used for a multitude of applications including low voltage insulation as well as splicing and repair of cables up to 132kV.

2.1 Fusion Tape, (Polyisobutylene rubber) Technical Properties

FUSION TAPE (Polyisobutylene rubber)						
Width	Length	Thickness	Tape Color	Part Number	Description	Shelf Life
19mm (0.75in)	9m (30ft)	0.51mm (0.02in)	Black	605980-1	FUSION TAPE, .75"X .020"X 30FT	5 Years
25.4mm (1.00in)			Black	605980-2	FUSION TAPE, 1" X .020" X 30FT	5 Years
	3m (10ft)		Black	605262-1	FUSION TAPE, 1" X .020" X 10FT	5 Years
38.1mm (1.50in)	9m (30ft)		Black	605980-3	FUSION TAPE, 1.5"X .020"X 30FT	5 Years
50.8mm (2.00in)			Black	605262-2	FUSION TAPE, 2" X .020" X 30FT	5 Years

Technical Summary	
Temperature Range:	-40°C to +100°C (-40°F to 212°F)
Dielectric strength:	42kV/mm
Insulation:	Up to 132kV maximum



Section 3, Silicone Fusion Tape (Silicone rubber)

DESCRIPTION

a wrapping tape extruded of high-performance silicone rubber. Suitable wherever a tough, permanently resilient, void-free insulation is required.

The colored guideline facilitates wrapping and cuts taping time. The Silicone fusion tape is self-adhering and self-fusing, curing in 24 hours at room temperature. Faster curing and a harder finish can be accomplished through the application of heat after wrapping.

3.1 Silicone Fusion Tape, (Silicone rubber) Technical Properties

Silicone Fusion Tape (Silicone rubber)								
Width	Length	Thickness	Tape Color	Stripe Color	Part Number	Description	Shelf Life	
25.4mm (1.00in)	4.6m (15ft)	0.51mm (0.02in)	Red	Blue	1-608036-3	SILICONE FUSION TAPE, 1"X15'	1 year	
	11m (36ft)		Black	White	1-608036-4	SILICONE FUSION TAPE, 1"X15'	1 year	
			Clear	Blue	1-608036-2	SILICONE FUSION TAPE, 1"X36'	1 year	
			Red	Blue	608036-1	SILICONE FUSION TAPE, 1"X36'	1 year	
			Grey	Blue	608036-2	SILICONE FUSION TAPE, 1"X36'	1 year	
	38.1mm (1.50in)		0.76mm (0.03in)	Grey	White	608036-4	SILICONE FUSION TAPE, 1"X36'	1 year
			1.00mm (0.04in)	Red	Green	608036-5	SILICONE FUSION TAPE, 1"X36'	1 year
		1.52mm (0.06in)	Red	White	608036-9	SILICONE FUSION TAPE, 1.5"X36'	1 year	

Technical Summary	
Temperature Range:	-65°C to +260°C (-85F to +500F)
Resists pressure up to:	950 PSI
Insulation:	Up to 8kV

