



60 Tape

PTFE Film With Silicone Adhesive

Data Sheet

Product Description

- 2.0-mil PTFE backing
- Silicone thermosetting adhesive
- Supplied on 3 inch cores

Like all 3M insulating tapes, 3M™ 60 Tape is available in standard and custom widths and lengths. Standard length is 36 yards.

- Widths from 1/4" to 14"
- Longer lengths up to several times normal length, dependent upon width. Check with Customer Service.

Applications

3M 60 Tape has consistent physical and electrical properties over a broad temperature range; for use on high temperature coils, capacitors and wire harnesses.

Properties

Typical Values

Adhesive	Silicone Thermosetting
Backing	PTFE Film
Backing Thickness ¹	2.0 Mil
Total Thickness	4.0 mils/0.102mm
Temperature Class	180°C /356°F
Dielectric Breakdown ¹	9500 Volts
Insulation Resistance ¹ (megohms)	>1 x 10 ⁶
Breaking Strength ¹	20 lbs./in. (35 n/10mm)
Elongation ¹ (% at break)	200
Electrolytic Corrosion Factor ²	1.0
Adhesion to Steel ¹	30 oz./in. (3.20 n/10mm)
UL Flame Retardant ³	Yes

* Footnote: 1. Test method ASTM D 1000
2. 3M Test Method-Available on request
3. UL-recognized for flame retardancy per UL 510, Product Catagory 0ANZ2, File E17385.



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產品編號	帶基／基材說明	膠黏劑	操作溫度	厚度 密耳／毫米	介電擊穿／耐電壓伏特數	絕緣電阻／歐姆	每寸磅數 擊／穿強度分牛頓數	伸張度 折斷時百分率	電解腐蝕係數	每寸安 對土鋼數的／ 黏每附公力分牛頓數	UL 510 防燃劑	CTI 物料組合
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環氧薄膜 Epoxy Film

#1	環氧薄膜	厚 2.2mil 防燃帶基，處理極容易，高介電強度、抗鬆脫、抗溶劑、適用作外層封包及添裝電容器、線圈封包、層間絕緣及纏結電線；可在表面印刷。										
		A	130	3.5/0.09	5000	$> 1 \times 10^6$	25/44	75	1.0	30/3.3	yes	I
#10	環氧薄膜	堅韌、從形性好、抗焊接、抗刺穿、電氣性能佳、處理容易；適用作線圈封包、固定、細紮、纏合、外層及線圈阻緣。										
		RT	130	5.5/0.14	7500	$> 1 \times 10^6$	40/70	30	1.0	60/6.5	yes	I
#20+	環氧薄膜	堅韌、從形性好、抗焊接、抗刺穿、電氣性能佳、處理容易；不易鬆脫、抗溶劑、耐溫、抗剪程度高；適用作線圈封包、固定、細紮、纏合、外層及線圈阻緣；可在表面印刷。										
		A	130	5.5/0.14	7000	$> 1 \times 10^6$	40/70	30	1.0	35/3.8	yes	I

聚酸亞胺薄膜 Polyimide Film

#92	薄膜	厚 1mil 薄膜，纖薄、特別設計在高溫時使用；用於線圈、電容器及電線纏結。										
		ST	180	3.0/0.08	7500	$> 1 \times 10^6$	30/53	55	1.0	20/2.2	yes	IIlb
#1205	薄膜	厚 1mil 薄膜，除具抗溶劑能力外，其他特性與 #92 相同。										
		A	155	3.0/0.08	7500	$> 1 \times 10^6$	30/53	55	1.0	35/3.8	yes	IIlb

聚四氟乙烯薄膜 PTFE Film

#60	薄膜	厚 2mil 薄膜，在極大溫差時，物理及電氣性能仍保持不變；適用於高溫線圈、電容器及扁平漆色線。										
		ST	180	4.0/0.10	9500	$> 1 \times 10^6$	20/35	200	1.0	25/2.7	yes	I
#61	薄膜	厚 5mil 薄膜，適用於高介電及擊穿強度時使用，與 #60 相似。										
		ST	180	6.5/0.16	15000	$> 1 \times 10^6$	45/79	300	1.0	35/3.8	yes	I
#62	可貼合薄膜	厚 2mil 薄膜，聚黏結力的底部能更有效地黏合其帶基，並提高對絕緣漆及樹脂的黏結力；用途與 #60 相似；可在表面印刷。										
		ST	180	3.5/0.09	9500	$> 1 \times 10^6$	20/35	200	1.0	25/2.7	yes	I
#63	薄膜	厚 2mil 薄膜，聚抗溶性的黏結劑；適用於化學性能及耐溫性能重要的情況下。										
		A	155	3.0/0.09	9500	$> 1 \times 10^6$	20/35	200	1.0	40/4.4	yes	I

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