



SPECIFICATION OF PMP SHEET, FOLIUM ROLL CODE: SMMC-45

1.0 SCOPE :

This specification lays down Polyester Mica Polyester Sheet rolls are used as flexible electrical insulation in high-voltage (HT) and low-voltage (LT) electrical machines, such as electric motors and generators, as well as in transformers. The combination of polyester film and mica provides excellent thermal stability, high dielectric strength, and flexibility for insulating rectangular conductors, protecting equipment from heat, flames, and electrical stress.

2.0 CONSTRUCTION:

A Polyester Mica Polyester sheet is a high-performance electrical insulation material made from high-quality mica paper grade: Muscovite or Phlogopite and electrical-grade polyester film, bonded with an insulating resin. Key specifications include a thermal Class F (155°C) insulation rating, a thickness ranging from approximately 0.13 mm to 0.4 mm, and exceptional dielectric strength due to the mica content. These tapes are flexible, resistant to heat, and suitable for high-voltage applications in transformers, motors, and cables, providing superior insulation even in demanding industrial environments.

3.0 SIZE OF SHHETS

Normal Standard Sizes are 500 mm x 1000 mm and 1000 mm x 1000 mm. Also available in Roll form 1000 mm width x 25 mtrs. To 100 mtrs

3.1 GENERAL:

Flexible Polyester Mica Polyester Sheet shows excellent thermal resistance electrical properties and Flexibility to satisfactory at ambient Temp.

3.2 TECHNICAL PARTICULARS & SPECIFIC REQUIREMENTS

SR. No.	PARTICULARS.	UNIT	SPECIFIC-REQUIREMENTS. FOR THICKNESS	
			0.13 mm	0.175 mm
3.2(1)	MICA PAPER	gms/m ²	110 ± 5	150 ± 5
3.2(2)	POLYESTER FILM (Backing)	gms/m ²	18 ± 1	18 ± 1
3.2(3)	POLYESTER FILM (Facing)	gms/m ²	18 ± 1	18 ± 1
3.2(4)	BINDER	gms/m ²	54 ± 5	64 ± 5
3.2(5)	MASS UNIT AREA	gms/m ²	200 ± 20	250 ± 20

3.3 MECHANICAL PROPERTIES.

3.3(1)	TENSILE STRENGTH:	Kg/cm	6 ± 1	8 ± 1
--------	-------------------	-------	-------	-------

3.4 ELECTRICAL PROPERTIES.

3.4(1)	ELECTRICAL STRENGTH: (BDV-Minimum)	kv/sheet	4.5	5
--------	---------------------------------------	----------	-----	---

3.5 SIZE & TOLERANCES.

3.5(1)	THICKNESS:	mm	± 0.075	± 0.075
3.5(2)	WIDTH	mm	± 0	± 10
3.5(3)	LENGTHS:	mm	± 10	± 10

ALSO AVAILABLE OTHER SIZES AND THICKNESSES AS PER BUYER'S DEMAND

3.6 CLASS OF INSULATION:

3.6(1) 'F' CLASS THERMAL RESISTANCE UP TO 155°C

SAKTI MICA MANUFACTURING CO.

3/5A, VIVEK NAGAR, GROUND FLOOR, KOLKATA – 700 075.
TEL: 91-033- 2418-4251, CELL: 91-9051906882, 91-9831105371
E-MAIL: saktimica@rediffmail.com / micasakti@gmail.com

Data are average results of laboratory tests conducted under standard procedures and are subject to variation, these do not constitute A warranty or representation for which assume legal responsibility.