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BOPET CAPACITOR FILM
BOPET电容膜

Document No. 文件编号	Revision 版本	Issue date 签发日期	Document type 文件类型
APIG-PDS-BPE-019-2026	**Rev. 1.0**	**2026-11-07**	**Product Data Sheet / 产品规格书**

Capacitor film PET, for printing, lamination and flexible packaging, supply to capacitor and film capacitor manufacturers.
BOPET电容膜

1. TECHNICAL PROPERTIES 技术参数

Property 项目 Specification 规格	
Thickness 厚度	1.5 / 2 / 2.5 / 3 / 3.5 / 4 / 5 μm (按订单确认)
Material 材质	Biaxially Oriented Polyethylene Terephthalate (BOPET / PET)
Colour 颜色	Clear, or metallised (silver / zinc) 透明，或镀铝（银 / 锌）
Metallisation 真空镀层	Vacuum deposited Al or Zn/Al on one or both sides
Width 幅宽	500 - 1,300 mm
Roll length 卷长	1,000 - 5,000 m
Dielectric strength 介电强度	≥ 300 kV/cm (unmetallised)
Permittivity 介电常数	εr 3.2 - 3.4 (PET)
Dissipation factor 介电损耗角正切	δ ≤ 0.0005 (1 kHz)
Volume resistivity 体积电阻率	≥ 1×10^{14} Ω·cm

2. TYPICAL APPLICATIONS 典型应用

Film capacitors, motor run and lighting capacitors, high reliability applications

3. PRODUCT DESCRIPTION 产品说明

BOPET CAPACITOR FILM
BOPET 电容膜

It is used for film-capacitor (and other electrical insulation material.) which features dielectric strength, dielectric constant and volume resistance, low dielectric loss, good mechanical performance and dimension stability.
具有拉伸强度高、介电常数高，损耗因数低，厚度均匀性好、良好的电性能、电阻力大等特点，已广泛用于电容器介质和绝缘隔层。常用标准厚度有3.5μm、3.8μm、4μm、4.3μm、4.8μm、5μm、6μm、8μm、9μm、9.8μm、10μm、12μm。

Thickness :3-12 UM

Width : 500,620,670 MM

Net weight per roll about : 50KGS/roll

Inner plastic tube core : 3”,6” (76MM ,152MM)

By the way , we also manufacture the BOPET metalized (VM/--Zn /Al) capacitor film.

Technological data for customer’ s reference ,

Density

g/cm 3

1.400+/-0.005

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melting point

≥256

Thickness

UM

3-12

Width of roll

MM

500,620,670

Inner plastic tube core

MM

Um 2

Um 2

Um 2

Net weight

kg

40-110

Other size

Can negotiate

Tensile strength

MD

MPA

≥200

Tensile rate

100mm/min@23℃,50%r.h.

TD

MPA

≥210

Elongation at break

MD

≥70

TD

≥70

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Resistance modulus

MD

N/mm 2

≥3500

TD

≥3500

Thermal shrinkage

MD

≤3

30min@150℃

TD

≤2

Wetting tension

mN/m

≥40

23 ℃

Surface roughness

um

0.06-0.15

@23℃,50%r.h.

BDV X

v/um

≥3000

50Hz or 1kHz @ 23℃

Relative permittivity

3.2+/-0.2

23℃

Volume resistivity

Ω/cm

≥10

1kHz @ 23℃ 200V/um

Dielectric dissipation factor(tan delta)

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≤0.005

200V/um

Film Uniformity in thickness

3.0-3.9

Um 2

4.0-5.9

Um 2

6.0-9.9

Um 2

4. COMMERCIAL TERMS 商务条款

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Thickness :3-12 UM

Width : 500,620,670 MM

5. HS CODE & REMARKS 海关编码与备注

Item 项目 Value 内容	
HS Code 海关编码	3920620000
Product Code 产品编号	APIG-BPE-019

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