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BOPP Capacitor Clear and Metallized Film -
BOPP 薄膜 — 技术数据

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APIG-TDS-BOPP-CAP-CM-2026	**Rev. 2.0**	**2026-11-09**	**Technical Data / 技术数据**

1 • DOCUMENT INFORMATION 文档信息

Item 项目	Description 说明
Document type 文件类型	Technical Data / 技术数据
Subject 主题	BOPP Capacitor Clear and Metallized Film - Technical Data
Specification basis 规格依据	APIG product specification 亚太工业集团产品规格
Issue 签发	2026-11-09 · Rev. 2.0
Language 语言	Bilingual headings — English / 中文

2 • TECHNICAL CONTENT 技术内容

made by biaxial -orientation tente	Column 2	Column 3
high BDV and high mechanical strength The winded capacitors take on th		
0 .4 B +0 .1 V		
0 .3 C +0 .2 W		
0 .2 D +0 .3 X		

01	E	+04	Y
0	L	+05	Z

d 3L 4E 5E 6E 7E 8D 9D 10D12D e t	Column 2	Column 3
TD % 50		
MD % 35 15min@120℃		

M-PP/S-PP ■Features By adopting the imported super high-purity capacitor-grade home-polypropylene resin, the film is made by biaxial-orientation tenter process.The film features excellent profile evenness, high BDV and high mechanical strength. The winded capacitors take on the characteristics of low dielectric dissipation and high insulation resistance. ■Application scope： M-PP：Mainly for metallized-film capacitor. S-PP：Mainly for foil-film capacitor. ■Technical Characteristics （typical value） Unit Typical Values Test conditions Tensile strengh MD MPa 140 Stretching speed:100% /min @23℃，50%r.h. . TD MPa 250 Elongation at break MD % 100 TD % 50 Themal shrinkage MD % 3.5 15 min @ 120℃ TD % 1.0 Wetting tension [1] mN/m 38 Corona-treated Side Surface roughness μm 0.1 23℃ BDV X V/μm 550 at 23℃air Relative permittivity 2.2 50Hz or 1kHz @ 23℃ Volume resistivity Ω·m 5.0×1015 23℃ Dielectric dissipation factor(tan delta) 2×10-4 50Hz or 1kHz @23℃ * Reference Specification: IEC60674-2 * Values above are reference only , not for contracting. * NOte:Uncorona-treated fot Type SPP ■Film thickness code： The nominal film thickness is indicated by its central value (integer value, e.g. 5,6.7 the first f igure after decimal or its codes. The nominal film thickness of this company is the Mechani- cal Method Value (MMV) under 10 layers testing. Number Letter Number Letter -0.4 B +0.1 V -0.3 C +0.2 W -0.2 D +0.3 X · -0.1 E +0.4 Y 0 L +0.5 Z Example： 8D indicates 7.8 um in MMV; thickness; 12X indicates 12.3 um .

Remarks：The film of 3L.4E.5E.6E.7E.8D.9D and 10D etc. are recommended. 3L 4E 5E 6E 7E 8D 9D 10D 12D Thickness WMV μm 2.8 3.7 4.7 5.6 6.6 7.5 8.5 9.5 11.5 MMV μm 3.0 3.9 4.9 5.9 6.9 7.8 8.8 9.8 11.8 % ±3 Individual % ±9 ±7 ±5 Final film roll width mm 500 ， 620 Inner diameter mm 76.2 ， 152.4 Net weight kg 62，80 Note：Unusual specifications can be negotiated and specified additionally. Capacitor Polypropylene Rough film type RPP/RRPP ■Features By adopting the imported super high-purity capacitor-grade homo-polypropylene resin, the rough film is produced by biaxial-orientation tenter process. The film features excellent physical and electrical properties, such as good profile evenness，high electric strength，low dielectric dissipation and good windability

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etc. The film can company with a good many kinds of capacitor impregnation oil well. According to the authentication from National Power Capacitor Test Center, the product conforms to all the requirements of capacitor insulation materials. ■Application range: Mainly for power, electrothermal and other relevant kinds of high voltage capacitors designed as foil-film or foil-film & paper with oil-impregnation. ■Technical Characteristics （typical value） Unit Typical Values Test conditions Tensile strengh TD Mpa 140 Stretching speed 100mm/min @23℃，50%r.h. TD Mpa 200 Elongation at break MD % 150 TD % 50 MD % 3.5 15 min @ 120℃ · Thermal shrinkage TD % 1.5 Space factor Average % 9.0（6～9μm） 10.0（10～18μm） 23℃ Limited % Max 15 Min 6 Surface roughness μm 0.25—0.65 23℃ BDV X(DC) V/μm 520 at 23℃air Relative permittivity 2.2 50Hz or 1kHz @23℃ Volume resistivity Ω.m 5.0×1015 23℃ Dielectric dissipation factor(tan delta) 2×10-4 50Hz or 1kHz @23℃ *Reference Specification: IEC60674-2 Values above are reference only , not for contracting.

3 • NOTES 说明

This document states the standard specification of the product. Values apply to the grades listed here; the tolerance range agreed in the order confirmation and the technical agreement prevails for any specific order. Batch test records are issued with the goods on request.